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# OWNER'S MANUAL.

## BMW M5 SEDAN.







# WELCOME TO BMW.

## Owner's Manual.

Thank you for choosing a BMW.

The more familiar you are with the vehicle, the better control you will have on the road. We therefore strongly suggest the following:

Read this Owner's Manual before starting off in your new BMW. Also use the Integrated Owner's Manual in the vehicle. It contains important notes on vehicle operation that will help you make full use of the technical features available in your BMW. The manual also contains information designed to enhance operating reliability and traffic safety, and to contribute to maintaining the value of your BMW.

At the time of production at the plant, the printed Owner's Manual is the most current resource. After a vehicle software update – such as a Remote Software Upgrade – the Integrated Owner's Manual for the vehicle will contain the latest information.

You can find supplementary information in the additional brochures in the onboard literature.

We wish you a safe and enjoyable ride.

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# Information

## Using this Owner's Manual

### General information

This Owner's Manual is provided by BMW of North America, LLC (BMW NA), the exclusive distributor of BMW vehicles and parts in the United States, to new BMW motor vehicle purchasers in the United States.

When the term Vehicle manufacturer or a similar reference is used in this Owner's Manual, that term is intended as a reference to BMW NA.

### Orientation

The fastest way to find information on a particular topic is by using the index.

For an overview of the vehicle, we recommend reading the Quick Reference Guide in the Owner's Manual.

## Validity of the Owner's Manual

### Production of the vehicle

At the time of production at the plant, the printed Owner's Manual is the most current resource.

Due to updates after the editorial deadline, differences may exist between the printed Owner's Manual and the Integrated Owner's Manual in the vehicle.

Notes on updates can be found in the appendix of the printed Owner's Manual for the vehicle.

### After a software update in the vehicle

After a vehicle software update such as via Remote Software Upgrade the Integrated Owner's Manual for the vehicle will contain the latest information.

## Owner's Manual for Navigation, Entertainment, Communication

The Owner's Manual for Navigation, Entertainment, and Communication is available as a printed book from an authorized service center.

The topics are also discussed in the Integrated Owner's Manual in the vehicle.

## Media at a glance

### Principle

The contents of the Owner's Manual are available in various media formats. The following Owner's Manual media formats are available:

- ▶ Printed Owner's Manual.
- ▶ Integrated Owner's Manual in the vehicle.

Depending on availability in the respective country, additional information about the vehicle is provided via the following media:

- ▶ Online: [driversguide.bmw.com](http://driversguide.bmw.com).
- ▶ In the app: BMW Driver's Guide.

The current version can be printed out directly, or a printable version of the Owner's Manual can be downloaded.

### Printed Owner's Manual

The printed Owner's Manual shows all standard, country-specific, and optional equipment that is currently available, or may become available in the future, for specific models.

## Integrated Owner's Manual in the vehicle

### Principle

The Integrated Owner's Manual shows all standard, country-specific, and optional equipment that is currently available, or may become available in the future, for specific models. The Integrated Owner's Manual can be displayed on the control display.

### Selecting the Owner's Manual

1.  Apps menu
2. "All apps"
3. "Owner's Manual"
4. Select the desired method of accessing the contents.

### Scrolling through the Owner's Manual

Swipe up or down until the next or previous contents are displayed.

### Context help

#### General information

The Integrated Owner's Manual can be accessed from any menu. Depending on the selected function, either the associated description or the main menu of the Integrated Owner's Manual will be displayed.

#### Selecting context help from a menu

1. Press and hold the desired menu item.
2. "General help"

#### Selecting context help from a Check Control message

Directly from the Check Control message on the control display:

"Owner's Manual"

## Supplementary documentation

The media included with the Owner's Manual is supplemented by additional documents, e.g., Supplementary Owner's Manuals, brochures, or inserts. Supplementary Owner's Manuals or brochures contain, for example, information on special models or information that must be communicated in printed form due to legal requirements. Inserts may include different information than that given in the media included with the Owner's Manual. Follow all additional documents that may be enclosed with the on-board literature.

## Additional sources of information

### Authorized service center

An authorized service center, e.g., a BMW dealer or service center, will be happy to answer any questions you may have.

### Internet

Vehicle information and general information on BMW, for instance, on technology, are available on the Internet: [www.bmwusa.com](http://www.bmwusa.com).

### BMW Driver's Guide app

The BMW Driver's Guide app shows all standard, country-specific, and optional equipment that is currently available, or may become available in the future, for specific models. The app can be displayed on smartphones and tablets.

### BMW Driver's Guide Web

The BMW Driver's Guide website shows all standard, country-specific, and optional equipment that is currently available, or may become available in the future, for specific models. The BMW Driver's Guide Web can be displayed in any current browser.

## Printable Owner's Manual

The current version can be printed out directly from the following media:

- ▷ Online: [driversguide.bmw.com](https://driversguide.bmw.com).
- ▷ In the app: BMW Driver's Guide.

When a Remote Software Upgrade is offered in the vehicle, the contents of the BMW Driver's Guide app and the BMW Driver's Guide website are also updated.

In addition, a printable version of the Owner's Manual can be downloaded, which reflects the production status of the vehicle.

## Icons and displays

### Icons in the Owner's Manual

#### Icon Meaning

 Precautions that must be followed in order to avoid the possibility of injury to yourself and to others as well as serious damage to the vehicle.

 Recycling information.

"..." Texts in vehicle used to select individual functions.

>...< Verbal instructions to use with the voice activation system.

>>...<< Responses generated by the voice activation system.

## Action steps

Action steps to be carried out are presented as a numbered list. These steps must be carried out in the order shown.

1. First action step.
2. Second action step.

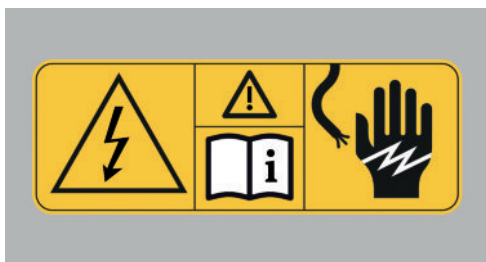
## Bulletpoint lists

Items or actions without strict order or alternative options are shown as a bulletpoint list.

- ▷ First possibility.
- ▷ Second possibility.

## Icons on vehicle parts

 This symbol on a vehicle component indicates that further information on the component is available in the Owner's Manual.



These icons found on parts of the vehicle indicate that incorrect use of high-voltage technology or of orange-colored high-voltage components poses a risk of life-threatening injury by electric shock.

## Vehicle features and options

This Owner's Manual shows all standard, country-specific, and optional equipment that is currently available, or may become available in the future, for specific models, i.e., model series. Therefore, this Owner's Manual also describes and illustrates equipment, systems and functions that are not available in a vehicle, for example due to the following situations:

- ▷ Selected optional equipment.
- ▷ National-market version or national-market equipment.
- ▷ Options for later release and software update.



This also applies to safety functions and systems.

Before starting a journey, verify whether the described equipment or function is available in the vehicle. For information on whether a function is currently available in the vehicle or when the function can be installed in the vehicle, contact an authorized service center or another qualified service center or repair shop.

A claim for the availability of equipment, a system or a function in the vehicle cannot be derived based on the description in the Owner's Manual.

When using these functions and systems, the applicable laws and regulations must be observed.

For any equipment and models not described in this Owner's Manual, refer to any supplementary documentation included, e.g., Supplementary Owner's Manuals, inserts.

An authorized service center is happy to answer any questions that you may have about the features and options applicable to your vehicle.

## Status of the Owner's Manual

### Basic information

The manufacturer of the vehicle pursues a policy of constant development to ensure that our vehicles continue to embody the highest quality and safety standards. In rare cases, therefore, the features described in this Owner's Manual may deviate from those in the vehicle.

### Validity of the Owner's Manual

#### Production of the vehicle

At the time of production at the plant, the printed Owner's Manual is the most current resource.

Due to updates after the editorial deadline, differences may exist between the printed Owner's Manual and the Integrated Owner's Manual in the vehicle.

Notes on updates can be found in the appendix of the printed Owner's Manual for the vehicle.

### After a software update in the vehicle

After a vehicle software update such as via Remote Software Upgrade the Integrated Owner's Manual for the vehicle will contain the latest information.

## For Your Own Safety

### Intended use

Heed the following when using the vehicle:

- ▷ Owner's Manual.
- ▷ Information on the vehicle. Do not remove stickers.
- ▷ Technical vehicle data.
- ▷ The traffic, speed, and safety laws where the vehicle is driven.
- ▷ Vehicle documents and statutory documents.

### Warranty

Your vehicle is technically configured for the operating conditions and registration requirements applying in the country of first delivery also known as homologation. If your vehicle is to be operated in a different country it might be necessary to adapt your vehicle to potentially differing operating conditions and permit requirements. Noncompliance with homologation requirements in a certain country may affect warranty coverage. Please consult the New Vehicle Limited Warranty Booklet for further information on warranty matters.

## Preventive maintenance and repair

Advanced technology, for instance the use of modern materials and high-performance electronics, requires suitable maintenance and repair work.

The vehicle manufacturer therefore recommends having corresponding work performed by an authorized service center, e.g., a BMW dealer or service center. If a different repair shop is selected, BMW recommends selecting a workshop that performs corresponding work such as preventive maintenance and repair according to BMW specifications with properly trained personnel. In the Owner's Manual, such workshops are referred to as another qualified service center or repair shop.

If work is not carried out properly, for instance preventive maintenance and repair, there is a risk of subsequent damages and related safety risks.

Improperly performed work on the vehicle paintwork can lead to a failure or fault of components, e.g., the radar sensors, and thereby result in a safety hazard.

## Parts and accessories

BMW recommends the use of parts and accessory products approved by BMW.

Approved parts and accessories, and advice on their use and installation are available from an authorized service center.

BMW parts and accessories were tested by BMW for their safety and suitability in BMW vehicles.

BMW warrants genuine BMW parts and accessories.

BMW does not evaluate whether each individual product from another manufacturer can be used with BMW vehicles without presenting a safety hazard, even if a country-specific official approval was issued. BMW does not evaluate whether these products are suitable for BMW vehicles under all usage conditions.

## California Proposition 65 Warning

For vehicles sold in California the California law requires vehicle manufacturers provide the following warning:

### **WARNING**

Engine exhaust and a wide variety of Automobile components and parts, including components found in the interior furnishings in a vehicle, contain or emit chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Battery posts, terminals and related accessories contain lead and lead compounds. Batteries also contain other chemicals known to the State of California to cause cancer. Wash your hands after handling. Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing thoroughly with soap and water. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).

### **WARNING**

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).

## Service and warranty

We recommend that you read this publication thoroughly. Your vehicle is covered by the following warranties:

- ▶ New Vehicle Limited Warranty.
- ▶ Rust Perforation Limited Warranty.
- ▶ Federal Emissions System Defect Warranty.
- ▶ Federal Emissions Performance Warranty.
- ▶ California Emission Control System Limited Warranty.

Detailed information about these warranties is listed in the New Vehicle Limited Warranty Booklet.

Your vehicle has been specifically adapted and designed to meet the particular operating conditions and homologation requirements in your country and continental region in order to deliver the full driving pleasure while the vehicle is operated under those conditions. If you wish to operate your vehicle in another country or region, you may be required to adapt your vehicle to meet different prevailing operating conditions and homologation requirements. You should also be aware of any applicable warranty limitations or exclusions for such country or region. In such case, please contact Customer Relations for further information.

## Maintenance

Maintain the vehicle regularly to sustain the road safety, operational reliability and the New Vehicle Limited Warranty.

Specifications for maintenance measures:

- ▶ BMW maintenance system.  
Maintenance, refer to page 377.
- ▶ Maintenance Booklet, available online and accessible via a QR code in the New Vehicle Limited Warranty Booklet.
- ▶ Warranty and Service Guide Booklet for Canadian models.

If the vehicle is not maintained or is improperly maintained, this could result in serious damage to the vehicle.

A failure to maintain your vehicle or improper maintenance may affect your warranty coverage. Please consult the New Vehicle Limited Warranty Booklet for further information on warranty matters.

Refer to section on engine oil change regarding recommended service intervals for oil changes.

## Data memory

### General information

Electronic control devices are installed in the vehicle. Electronic control units process data they receive from vehicle sensors, self-generate or exchange with each other. Some control units are necessary for the vehicle to function safely or provide assistance while driving, for instance driver assistance systems. Furthermore, control units facilitate comfort or infotainment functions.

BMW of North America, LLC collects, uses, discloses, or otherwise processes your personal information in accordance with its privacy policy, which is available at <https://my.bmwusa.com/privacypolicy>.

### Personal reference

Each vehicle is marked with a unique vehicle identification number. Depending on the country, the vehicle owner can be identified with the vehicle identification number, license plate and corresponding authorities. In addition, there are other ways to associate data collected from the vehicle with the driver or vehicle owner, e.g., the ConnectedDrive account used.

### Operating data in the vehicle

Control units process data to operate the vehicle.

This includes, for example:

- ▶ Status messages for the vehicle and its individual components, e.g., wheel RPM, wheel speed, deceleration, lateral acceleration, engaged seat belt indicator.
- ▶ Ambient conditions, e.g., temperature, rain sensor signals.

The processed data is only processed in the vehicle itself while the vehicle is being operated. Data is not stored beyond the operating time.

Electronic components, e.g. control units and vehicle keys, contain components for storing technical information. Information about the vehicle condition, component usage, maintenance recommendations, events or faults can be stored temporarily or permanently.

This information generally documents the state of a component, a module, a system, or the surrounding area, for instance:

- ▶ Operating states of system components such as fill levels, tire pressure, battery status.
- ▶ Malfunctions on important system components, e.g., lights and brakes.
- ▶ Responses by the vehicle to special driving situations such as airbag deployment or engagement of the driving stability control systems.
- ▶ Information on vehicle-damaging events.

The data is required to perform the control unit functions. Furthermore, it also serves to detect and correct malfunctions, and helps the vehicle manufacturer to optimize vehicle functions.

The majority of this data is stored temporarily and is only processed within the vehicle itself. In some circumstances the vehicle may store some data in event or fault memories for an additional but limited period of time.

When servicing, for instance during repairs, service processes, warranty cases, and quality assurance measures, this technical informa-

tion can be read out from the vehicle together with the vehicle identification number.

An authorized service center or another qualified service center or repair shop can read out the information. The diagnostic socket required by law in the vehicle is used to read out data.

The data is collected, processed, and used by the relevant organizations in the service network. The data documents technical conditions of the vehicle, which can be used to determine vehicle maintenance status, and facilitate quality improvement.

Vehicle fault and event memories can be reset by an authorized service center or another qualified service center or repair shop when performing repair or servicing work.

## Data entry and data transfer into the vehicle

### General information

Depending on the vehicle equipment, comfort and individual settings can be stored in the vehicle and modified or reset at any time.

This includes, for example:

- ▶ Settings for the seat and steering wheel positions.
- ▶ Chassis and air conditioning settings.

If necessary, data can be transferred to the entertainment and communication system of the vehicle, for instance via smartphone.

This includes the following depending on the respective equipment:

- ▶ Multimedia data such as music, films or photos for playback in an integrated multimedia system.
- ▶ Address book data for use in conjunction with an integrated hands-free system or an integrated navigation system.
- ▶ Entered navigation destinations.
- ▶ Data on the use of Internet services.

This data can be stored locally in the vehicle or is found on a device that has been connected to the vehicle, e.g., a smartphone, USB stick or MP3 player. If this data is stored in the vehicle, it can be deleted at any time.

This data is only transmitted to third parties upon personal request as part of the use of online services. The transmission depends on the selected settings for the use of the services.

## Incorporation of mobile devices

Depending on the vehicle equipment, mobile devices connected to the vehicle, for instance smartphones, can be controlled via the vehicle operating elements.

The sound and picture from the mobile devices can be played back and displayed through the multimedia system. Certain information is transferred to the mobile devices at the same time. Depending on the type of incorporation, this includes, for instance, position data and other general vehicle information. This optimizes the way in which selected apps, for instance navigation or music playback, work.

There is no further interaction between the mobile device and the vehicle such as active access to vehicle data.

How the data will be processed further is determined by the provider of the particular app being used. The extent of the possible settings depends on the respective app and the operating system of the mobile device.

## Services

### General information

If the vehicle has a wireless network connection, it will enable data to be exchanged between the vehicle and other systems. The wireless network connection is realized via an in-vehicle transmitter and receiver unit or via personal mobile devices brought into the vehicle, for instance smartphones. This wireless network connection enables 'online functions'

to be used. These include online services and apps supplied by the vehicle manufacturer or by other providers.

### Services from the vehicle manufacturer

Where online services from the vehicle manufacturer are concerned, the corresponding functions are described in the appropriate place, for instance the Owner's Manual or manufacturer's web page. You may find out more about BMW of North America, LLC privacy practices on our website, specifically <https://my.bmwusa.com/privacypolicy>. BMW of North America, LLC may collect, use, disclose, or otherwise process your personal information to provide you with its services. However, you may deactivate optional information collection using your vehicle's Data Privacy menu or completely disable all information collection by calling BMW of North America, LLC.

### Services from other providers

When using online services from other providers, these services are the responsibility of the relevant provider and subject to their data privacy conditions and terms of use. The vehicle manufacturer has no influence on the content exchanged during this process. Information on the way in which personal data is collected and used in relation to services from third parties, the scope of such data, and its purpose, can be obtained from the relevant service provider.

## Event Data Recorder

This vehicle is equipped with an event data recorder. The main purpose of this component is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The event data recorder is designed to record data related to vehicle dynamics and

safety systems for a short period from up to 30 seconds, typically less.

The event data recorder in this vehicle is designed to record the following data, for example:

- ▶ How various systems in the vehicle were operating.
- ▶ Whether or not the driver and passenger safety belts were fastened.
- ▶ How far, if at all, the driver was depressing the accelerator and/or brake pedal.
- ▶ How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

Data from the event data recorder are recorded by the vehicle only if a nontrivial crash situation occurs; no data are recorded under normal driving conditions and no personal data, e. g., name, gender, age, and crash location, are recorded.

However, other parties, such as law enforcement, could combine the recorded data with the type of personally identifying data routinely acquired during a crash investigation.

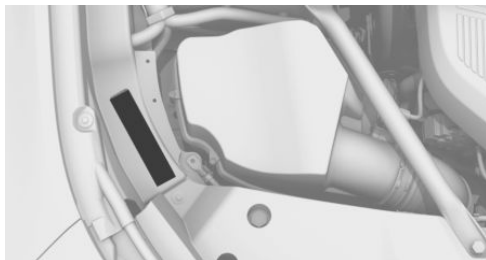
To read the recorded data, special equipment is required, and access to the vehicle or the event data recorder is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the event data recorder.

## Vehicle identification number

### General information

Depending on the national-market version, the vehicle identification number is located in different places on the vehicle. This chapter describes all possible positions for the series.

### Engine compartment



The engraved vehicle identification number can be found in the engine compartment, on the right-hand side of the vehicle.

### Right nameplate



The vehicle identification number can be found on the nameplate, on the right-hand side of the vehicle.

### Left nameplate



The vehicle identification number can be found on the nameplate, on the left-hand side of the vehicle.

## Windshield



The vehicle identification number can also be found behind the windshield.

## iDrive

It is also possible to display the vehicle identification number via iDrive.

1.  Apps menu
2. "All apps"
3. "Mobile devices"
4. "Settings"
5. "Vehicle ID (VIN):"

## Reporting safety defects

### For US customers

The following only applies to vehicles owned and operated in the US.

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration NHTSA, in addition to notifying BMW of North America, LLC, P.O. Box 1227, Westwood, New Jersey 07675-1227, Telephone 1-800-831-1117.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign.

However, NHTSA cannot become involved in individual problems between you, your dealer, or BMW of North America, LLC.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE., Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

### For Canadian customers

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls, may telephone the toll-free hotline 1-800-333-0510. You can also obtain other information about motor vehicle safety from <http://www.tc.gc.ca/roadsafety>.

# BMW eDRIVE

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## BMW eDRIVE

### Principle

BMW eDRIVE is the designation for the electric drive technology. In addition to the combustion engine, the vehicle features a high-voltage hybrid system that consists of an electric motor and a high-voltage battery, among other things.

The hybrid system can move the vehicle entirely on battery power. It can also support the combustion engine in certain situations.

### General information

The vehicle does not consume any fuel when using electric drive. This makes it possible to drive in an environmentally-friendly manner under certain conditions, for example, in city traffic.

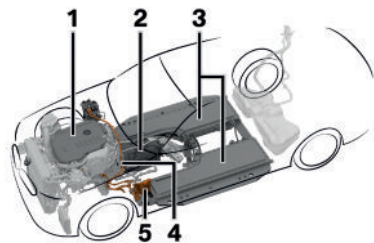
While driving with the combustion engine, the hybrid system helps to lower fuel consumption. The electric motor is switched on to support this, if required by the situation.

In addition to this, the electric motor acts as an alternator: During braking and in rolling to a stop/overrun mode, the electric motor converts the vehicle's kinetic energy into electrical energy. Electrical energy is stored in the high-voltage battery and used to drive the electric motor.

The high-voltage charging socket can be used to charge the high-voltage battery at charging stations or domestic socket outlets.

### Overview

#### Hybrid system components



- 1 Combustion engine
- Power electronics
- 2 Electric motor
- 3 High-voltage battery
- 4 High-voltage cables: Orange
- 5 High-voltage charging socket

### Settings of the hybrid system

The hybrid system can be configured using the M HYBRID button on the center console.

The hybrid system can be set so that the vehicle moves in hybrid mode, i.e., in combined drive with combustion engine and electric motor, or electrically only.

Depending on the system, the maximum speed is lower for electric drive than for driving with a combustion engine. The maximum electric speed is indicated by a blue mark on the speedometer.

In addition, the current charge of the high-voltage battery can be maintained and conserved for a later point in the drive.



Additional information:

- ▶ Functions while driving, refer to page [122](#).
- ▶ M Hybrid, refer to page [135](#).

## While driving

Observe the descriptions on the following topics in Chapter Functions while driving:

- ▶ General driving notes.
- ▶ Safety information.
- ▶ Functional requirements.
- ▶ Energy recovery.
- ▶ Support from the electric motor.
- ▶ Electric driving or hybrid mode.

Additional information:

Functions while driving, refer to page [122](#).

## Charging the vehicle

The high-voltage charging socket can be used to charge the vehicle's high-voltage battery at charging stations or domestic socket outlets.

By fully charging the high-voltage battery on a regular basis, the vehicle is able to reduce its fuel consumption by using electricity from the battery.

Additional information:

Charge vehicle, refer to page [324](#).

## Air conditioning while parking and charging

The hybrid system makes it possible to use the air conditioning system before starting a trip and when the combustion engine is off.

The vehicle interior is preconditioned before departure when the vehicle is charging or the high-voltage battery has sufficient charge.

The pre-conditioning can also be switched on directly.

Additional information:

Pre-conditioning, refer to page [293](#).

## Energy-saving driving

To save energy while driving, read the following descriptions.

Additional information:

- ▶ Saving fuel, refer to page [322](#).

## Safety of the high-voltage system

Additional information:

Working on the vehicle, refer to page [18](#).

## High-voltage battery, long stationary periods

Observe the information on taking the vehicle out of service and on longer idle periods.

Additional information:

Service life of high-voltage battery, long stationary periods, refer to page [337](#).

# Safety of the high-voltage system

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

- ▷ Water in the footwell, for instance after a rainstorm when the window was kept open.
- ▷ The vehicle is in water up to the allowed height.  
General driving instructions, driving through water, refer to page 317.
- ▷ Fluid escapes in the cargo area.

## Working on the vehicle

### General information

The manufacturer of your vehicle recommends that no changes be made to the vehicle, for instance installation of retrofitting accessories, that will have an effect on the vehicle's high-voltage system.

### Safety information

#### **WARNING**

Improperly executed work, in particular maintenance and repair on the high-voltage system can lead to electric shock or fire. There is risk of injury, danger to life, and property damage.

It is recommended that the work on the vehicle, in particular maintenance and repair, is performed by an authorized service center or another qualified service center or repair shop.

## Contact with ground

Note the ground clearance to prevent damage to the high-voltage system. If the vehicle floor has come into contact with the ground, have the vehicle checked by an authorized service center or another qualified service center or repair shop.

Additional information:

General driving instructions, ground clearance, refer to page 317.

## High-voltage battery monitoring

### Principle

The temperature of the high-voltage battery is monitored.

Warnings are issued when the high-voltage battery temperature is unusually high.

### Safety information

#### **WARNING**

Gas and smoke may form if the temperature of the high-voltage battery is unusually high. There is a risk of injury, danger to life, and risk of property damage. In case of noticeable

## Contact with water

The high-voltage system is typically safe even in the following example situations:

unusual odor or smoke formation, refer to the notes for actions in the event of a message.

### **WARNING**

A high-voltage battery fire cannot be extinguished using the fire extinguisher provided with the vehicle. There is a risk of injury, danger to life, and risk of property damage. Establish and keep a sufficient distance to the vehicle. Notify the fire department, emergency services, or police immediately.

## Automatic shut-off

If an accident occurs, the high-voltage system is switched off automatically to prevent risk of danger to occupants and other road users.

Additional information:

What to do after an accident, refer to page [386](#).

## High temperature message

### While driving

If the high-voltage battery temperature is too high while driving, a Check Control message appears on the control display.

### During charging or when parked

Depending on the national-market version:  
The vehicle sounds the horn and, if applicable, the vehicle lighting is flashing.

## Actions in the event of a message

### While driving

1. Stop immediately.
2. Park the vehicle in a safe place.
3. Exit the vehicle.
4. Establish and keep a sufficient distance to the vehicle.
5. Alert emergency personnel.

### During charging or when parked

1. If necessary, exit the vehicle.
2. Establish and keep a sufficient distance to the vehicle.
3. Alert emergency personnel.

# Getting in

## Opening and closing

### Vehicle key



Buttons on the vehicle key.

| Icon | Meaning                                                    |
|------|------------------------------------------------------------|
|      | Unlock.                                                    |
|      | Lock.<br>Pre-conditioning.<br>Display the charging screen. |
|      | Open the cargo area.                                       |
|      | Panic mode.<br>Pathway lighting.                           |

### Access to vehicle interior

#### Unlocking with the vehicle key



Press the button on the vehicle key.

If only the driver's door and charging flap have been unlocked due to the settings, press the button on the vehicle key again to unlock the other vehicle access points.

#### Locking with the vehicle key

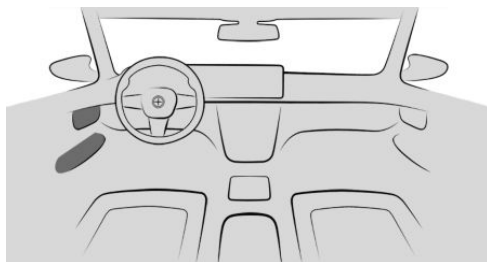
1. Close the driver's door.



2. Press the button on the vehicle key.  
All vehicle access points are locked.

#### Buttons for the central locking system

##### Overview



The central locking buttons are located on the front door.



Lock.



Unlock.

#### Locking the vehicle



Press the button in the driver's door or front passengers door with the front doors closed.

#### Unlocking the vehicle



Press the button in the driver's door or front passenger's door.

## Panic mode

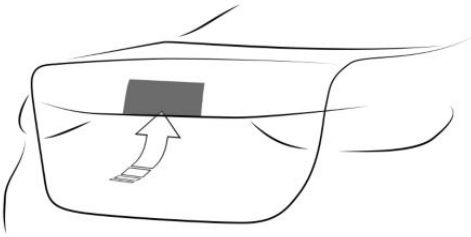
You can trigger the alarm system if you find yourself in a dangerous situation.

- ▶  Press the button on the vehicle key and hold for at least 3 seconds.
- ▶  Briefly press the button on the vehicle key three times in succession.

To switch off the alarm: Press any button.

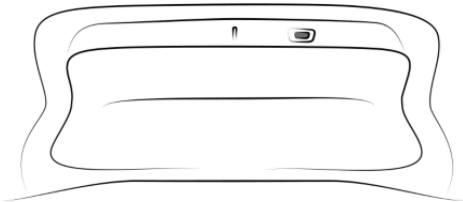
## Access to the cargo area

### Opening the cargo area



- ▶ Unlock the vehicle and then press the button on the cargo area.
- ▶  Press and hold the button on the vehicle key for approx. 1 second.  
Depending on the setting, the doors may be unlocked.

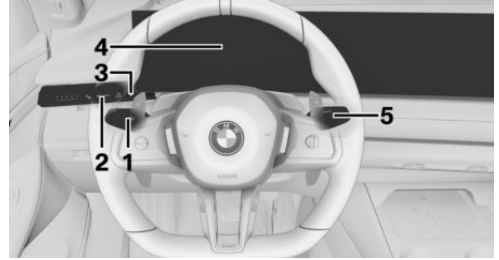
### Closing the cargo area



Press the button on the inside of the cargo area.

## Displays, operating elements

### In the vicinity of the steering wheel



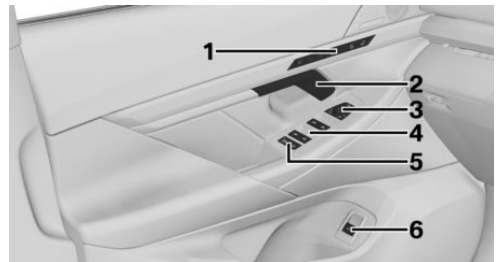
- 1 Turn signal, high-beam headlights
- 2 Light switch
- 3 Tank ventilation system
- 4 Instrument cluster
- 5 Wipers

### Indicator/warning lights

The indicator/warning lights can illuminate in a variety of combinations and colors.

Several of the lights are checked for proper functioning and illuminate temporarily when drive-ready state is turned on.

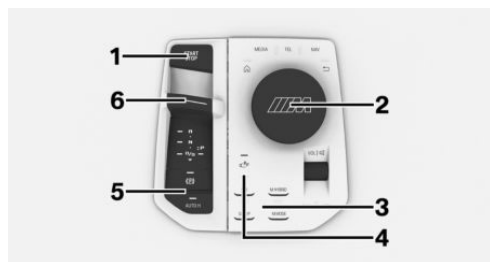
### Driver's door



- 1 Central locking system  
Seats, comfort features
- 2 Opening the door
- 3 Exterior mirrors

- 4 Power windows
- 5 Safety switch
- 6 Cargo area

## Switch console



- 1 Start/Stop button
- 2 Controller
- 3 Dynamic Stability Control, M HYBRID, M MODE, SETUP
- 4 Assistance systems
- 5 Parking brake, Automatic Hold
- 6 Selector lever

## BMW iDrive

### Principle

BMW iDrive is the vehicle's display and operating concept and includes a wide range of functions.

### Buttons on the Controller

| Button                                                                             | Function               |
|------------------------------------------------------------------------------------|------------------------|
|  | Call up the main menu. |
|  | Go to the Media menu.  |
|  | Go to the Phone menu.  |

### Button Function

|                                                                                   |                            |
|-----------------------------------------------------------------------------------|----------------------------|
|  | Go to the Navigation menu. |
|  | Go to the previous menu.   |

## BMW Intelligent Personal Assistant

### Principle

The BMW Intelligent Personal Assistant is a personal assistant that enables natural voice operation of various vehicle functions.

### Activating the voice control system

1.  Press the button on the steering wheel briefly.
2. Say the command.

### Canceling voice control

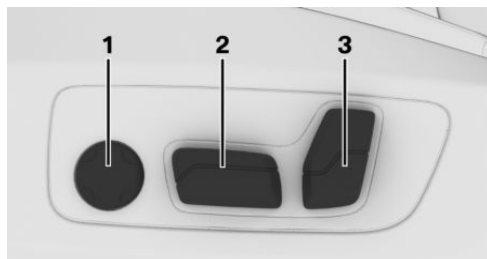
- ▶  Press the button on the steering wheel again.
- ▶ >Cancel<
- ▶ Slide the Controller to the right or left.
- ▶ Press the Controller.



# Set-up and use

## Seats, mirrors and steering wheel

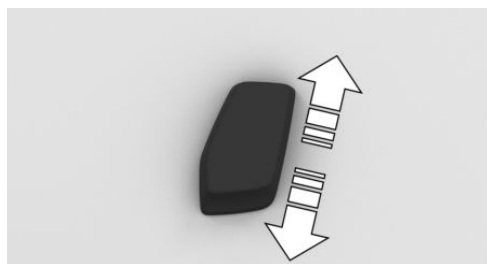
### Electrically adjustable seats



- 1** Lumbar support
- 2** Height/longitudinal direction/seat tilt
- 3** Backrest tilt/head restraint

### Adjusting the head restraint

#### Adjusting the height: Electrical head restraints



Press switch up or down.

### Adjusting the distance

The distance to the back of the head is adjusted via the backrest inclination.

### Adjusting the exterior mirrors

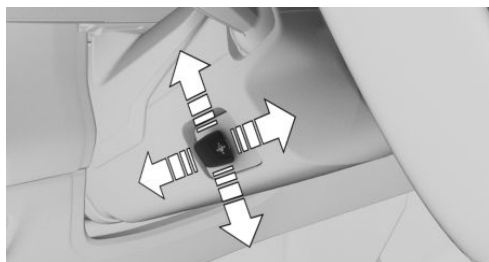


Buttons in the driver's door.

| Icon | Meaning                                              |
|------|------------------------------------------------------|
|      | Fold the exterior mirrors in and out.                |
|      | Adjust the exterior mirrors.                         |
|      | Select left exterior mirror, Automatic Curb Monitor. |
|      | Select right exterior mirror.                        |

## Adjusting the steering wheel position

### Electric steering wheel adjustment



Press the switch to adjust the steering wheel forward/back position and height to the seat position.

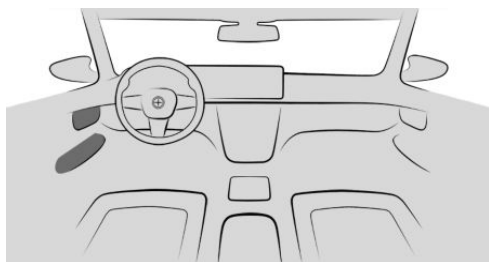
## Memory function

### Principle

The following settings can be stored and, if necessary, retrieved using the memory function:

- ▶ Seat position.
- ▶ Exterior mirror adjustment.
- ▶ Depending on vehicle equipment: Steering wheel position.
- ▶ Height of the Head-up display.

### Overview



The memory buttons are located on the front doors.

## Storing settings

1. Set the desired position.
2. **SET** Press the button. The LED illuminates.
3. Press the desired memory button as long as the LED is illuminated. A signal sounds.

## Calling up settings

Press the desired memory button 1 or 2.

## Infotainment

### Navigation destination input

1.  Navigation menu
2. "Destination input"
 

A search box and entered information such as the search history are displayed.
3. Select the desired entry or the search box.
4. When selecting the search box, enter characters or choose one of the POI categories displayed.
 

If necessary, select **OK** to display more information, e.g., a map preview.

If necessary, accept the suggested search keywords.
5. Select the desired entry.
6. "Start guidance"

## Entertainment

Depending on model variant, the center console or instrument panel provide the following operating elements:





| Operating element                                                                | Function                                                                             |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | Turn volume button: Adjust volume.<br>Press volume button: Turn sound output on/off. |
|  | Change the entertainment source.                                                     |
|  | Press once: Changes the station/track.                                               |
|  | Press and hold: Fast forward/rewind the track.                                       |

## Using the mobile phone

### General information

After the mobile phone is connected once to the vehicle, the mobile phone can be operated using iDrive and the steering wheel buttons.

Activate Bluetooth® on the mobile phone.

### Connecting via Bluetooth®

1.  Apps menu
2. "All apps"
3. "Mobile devices"
4. "Connect new device"  
Devices detected by the vehicle are shown on the control display.
5. Select the desired mobile phone.
6. Compare the control number displayed on the control display with the control number in the display of the mobile phone, and confirm that they match.
7. If necessary, select the connection mode:  
"Use Bluetooth®"

The device is connected and displayed in the device list.

## Accepting a call

A call can be answered as follows:

- ▶ Via iDrive:

 "Accept"

- ▶  Press the telephone function button on the steering wheel.

The call is conducted via the vehicle's hands-free system.

## Dialing a number

To dial a number, proceed as follows:

1.  Communication menu
2. "More"
3. "Dial number"
4. Enter the desired digits.
5. ▶  Select the icon for the phone.

The connection is established via the mobile phone with the highest priority.

- ▶  Press and hold the phone icon.  
"Call via": If two telephones are connected to the vehicle, it is possible to select from which mobile phone the connection is to be established.

# On the road

## Driving

### Drive-ready state

#### Turning on the drive-ready state

1. Close the driver's door.
2. Depress the brake pedal.
3. Press the Start/Stop button.

Drive-ready state is turned on and one of the following prerequisites is met:

- ▶ The combustion engine starts.
- ▶ Drive-ready state for electric driving without starting the combustion engine is on.

#### Turning off drive-ready state

1. While the vehicle is stationary, press the brake pedal and engage selector lever position P.
2. Set the parking brake.
3. Press the Start/Stop button.

The READY indicator goes out and a signal tone sounds.

The vehicle switches into standby state.

### M Steptronic Sport transmission

#### Engaging selector lever position D/S, N, R



- ▶ R reverse gear.
- ▶ N neutral.
- ▶ D/S Drive mode or sequential mode.

Depress the brake pedal until ready to drive off, otherwise the vehicle will move when a gear position or reverse gear is engaged.

Engage selector lever position R only when the vehicle is stationary.

#### Engaging selector lever position P

Engage selector lever position P only when the vehicle is stationary.



Press button P.

The parking brake is applied and the parking lock is engaged.

## Parking brake

### Setting the parking brake



Press the parking brake button.

The LED on the button and the indicator light in the instrument cluster are illuminated.

The parking brake is applied and parking lock is engaged.

### Releasing the parking brake



With the brake pedal pressed and drive-ready state on, press the parking brake button.

The LED and the indicator light go out.

The parking brake is released.

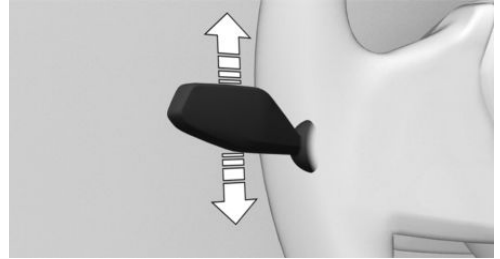
## Parking

Make sure the parking brake is engaged.

## Light and view

### Turn signal, high-beam headlights, headlight flasher

#### Turn signal



- ▶ Flashing: Press the lever past the resistance point.
- ▶ One-touch signaling: Lightly tap the lever up or down.
- ▶ Brief flashing: Press the lever to the resistance point and hold it there for as long as you want the turn signal to flashing.

#### High-beam headlights, headlight flasher



Press the lever forward or pull it backward.

- ▶ High-beam headlights on, arrow 1.  
The high-beam headlights illuminate when the low-beam headlights are switched on.
- ▶ High-beam headlights off/headlight flasher, arrow 2.

## Lights and lighting

### Buttons in the vehicle

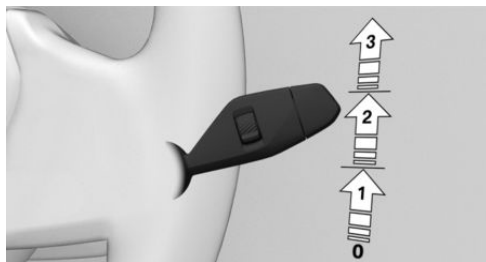
| Icon | Function                                                                            |
|------|-------------------------------------------------------------------------------------|
|      | Exterior lighting menu.                                                             |
|      | Automatic driving lights control.<br>Low-beam headlights.<br>Exterior lighting off. |
|      | Exterior lighting off.                                                              |

### Functions via iDrive

| Icon | Function                          |
|------|-----------------------------------|
|      | Automatic driving lights control. |
|      | Low-beam headlights.              |
|      | Parking lights.                   |
|      | Exterior lighting off.            |
|      | Left roadside parking light.      |
|      | Right roadside parking light.     |

## Window wiper system

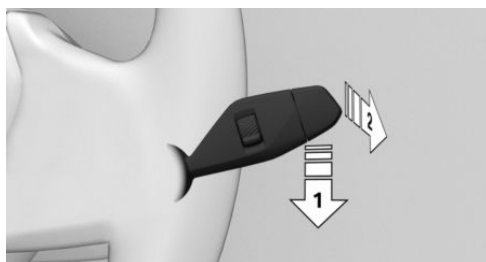
### Turning on window wiper system



Press the lever up until the desired position is reached.

- ▷ Rest position of the wipers, position 0.
- ▷ Rain sensor mode, position 1.
- ▷ Normal wiper speed, position 2.
- ▷ Fast wiper speed, position 3.

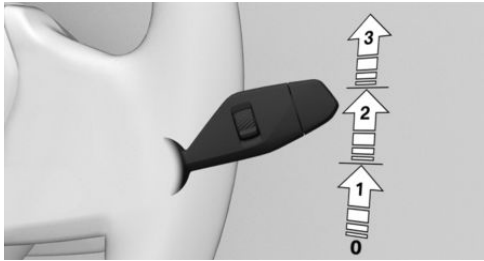
### Turning off the window wiper system and flick wipe



Press the lever down or forward.

- ▷ Turning off: Press the lever down, arrow 1, until it reaches the 0 position.
- ▷ Flick wipe: Press the lever down from the 0 position, arrow 1, and press the lever in position 0 or position 1 forward, arrow 2. The lever returns to its initial position when released.

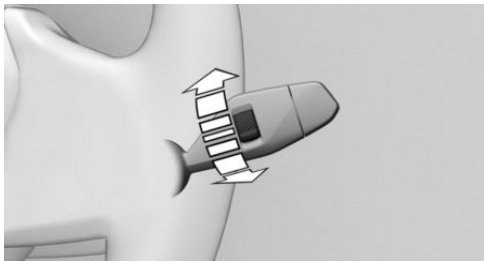
## Activating/deactivating rain sensor



Enable: Press lever up once from the 0 position, arrow 1.

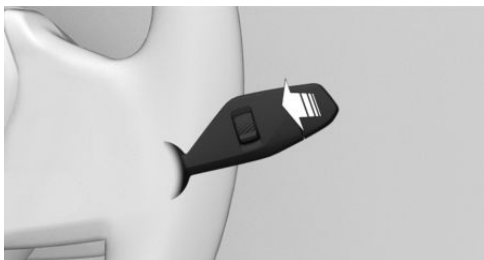
Disable: Press lever back into the 0 position.

## Adjusting the rain sensor sensitivity



Turn the thumbwheel on the wiper lever.

## Cleaning the windshield



Pull the lever.

## Climate control

### Climate control functions

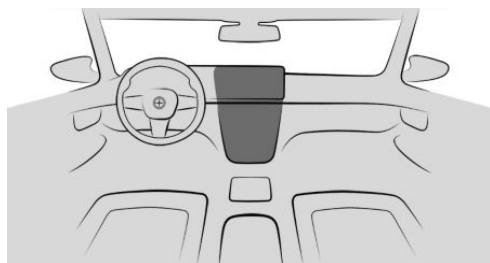
#### Functions in the Climate menu

| Icon                                                                                | Function                                 |
|-------------------------------------------------------------------------------------|------------------------------------------|
|    | Turn the air conditioning system on/off. |
|    | Automatic program.                       |
|    | Temperature in the vehicle interior.     |
|    | Air conditioning.                        |
|    | Maximum cooling.                         |
|    | Air recirculation mode.                  |
|    | Automatic air recirculation.             |
|   | Fresh air.                               |
|  | Air flow.                                |
|  | Air distribution.                        |
|  | SYNC program.                            |
|  | Seat heating.                            |

| Icon                                                                             | Function                 |
|----------------------------------------------------------------------------------|--------------------------|
|  | Active seat ventilation. |
|  | Steering wheel heating.  |

| Icon                                                                              | Function          |
|-----------------------------------------------------------------------------------|-------------------|
|  | Air distribution. |
|  | Seat heating.     |

## Buttons, air conditioning system



| Icon                                                                             | Function               |
|----------------------------------------------------------------------------------|------------------------|
|  | Defrost function.      |
|  | Rear window defroster. |

## Rear air conditioning system

| Icon                                                                               | Function           |
|------------------------------------------------------------------------------------|--------------------|
|  | Automatic program. |
|  | Temperature.       |
|  | Air flow.          |

## Intermediate stop

### Refueling

#### Ventilate the tank

Overpressure caused by gasoline vapors may form in the fuel tank. Before opening, ventilate the tank to equalize the pressure.

The button is located next to the steering wheel.

-  Press the tank ventilation button next to the steering wheel to start pressure compensation.

The tank ventilation system status is displayed in the instrument cluster. In rare cases, the fuel tank ventilation process may last several minutes, e.g., if the fuel tank level is high. A Check Control message may appear if the fuel tank ventilation button has to be pressed again. The combustion engine may switch off.

When tank ventilating has finished, a message is displayed in the instrument cluster. The fuel filler flap is released for opening.

- Open the fuel filler flap.

If it is not possible to open the fuel filler flap after tank ventilating, press the button again.

If it is still not possible to open the fuel filler flap even after pressing the button again, unlock the fuel filler flap manually.

Additional information:

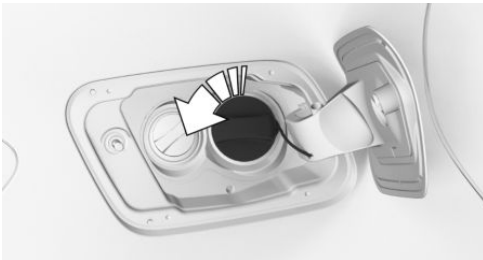
Emergency unlocking, refer to page 341.

## Fuel filler cap

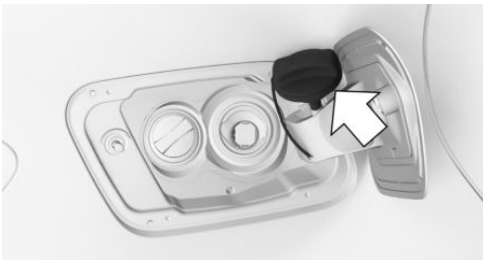
1. To open the fuel filler flap, press on the rear edge, arrow. The fuel filler flap opens.



2. Open the fuel filler cap counterclockwise.



3. Place the fuel filler cap in the bracket on the fuel filler flap.



## Charging the vehicle

Depending on national-market version, use a mode 2 charging cable, mode 3 charging cable or the permanently installed cable of a charging station to charge the vehicle.

The charging cable can be stowed in the cargo area, for instance under the cargo area floor or in a bag.

Before disconnecting and connecting a charging cable, clean the area between the charging flap and high-voltage charging socket, as well as the charging plug, as necessary, e.g., remove snow.

If necessary, unlock the charging cable before removing.

The charging status is shown by the indicator light on the high-voltage charging socket.

Keep the charging flap and/or charging socket cover closed when the high-voltage charging socket is not in use.

## Wheels and tires

### Tire pressure specifications

The tire inflation pressure specifications can be found in the tire inflation pressure table in the printed Owner's Manual.

### After correcting the tire pressure

If the vehicle is equipped with the Tire Pressure Monitor, the corrected tire pressures are applied automatically. Make sure that the tire settings are correct when using tires that are not listed in the tire inflation pressure specifications on the control display, and reset the Tire Pressure Monitor.

If equipped with a flat tire monitor, reinitialize the flat tire monitor.

### Checking the tire pressure

Regularly check the tire inflation pressure and correct it as needed:

- ▶ At least twice a month.
- ▶ Before embarking on an extended trip.

## Electronic oil measurement

### Functional requirements

A current measured value is available after approx. 30 minutes of normal driving with the combustion engine running.

### Displaying the engine oil level

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Engine oil level"

### Adding engine oil

#### General information

Safely park the vehicle and switch off drive-ready state before adding engine oil.

#### Adding engine oil

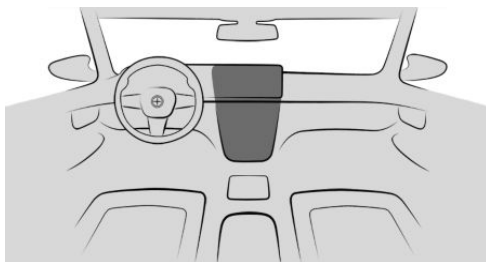
1. Opening the hood.
2. Open the lid counterclockwise.



3. Add engine oil.
4. Close the lid.

## Providing assistance

### Hazard warning system



Hazard warning system button

### BMW Assistance

Contact BMW Assistance for information and support for all aspects of the vehicle.

1.  Apps menu
2. "All apps"
3. "BMW Assist"
4. If necessary, select the desired service.

A voice connection to the selected service is established.





# Dashboard

## Vehicle features and options

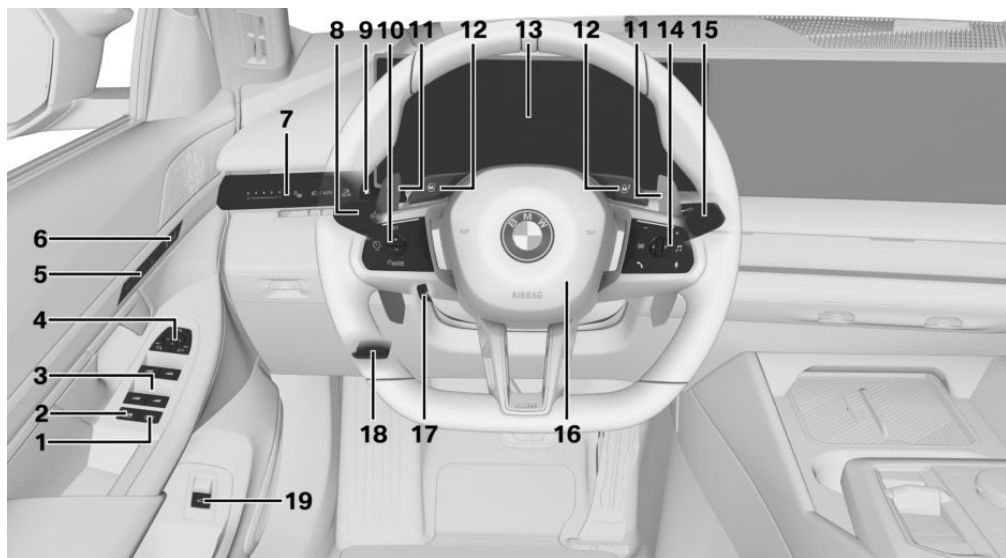
This chapter describes model-specific equipment, systems, and functions that are currently

available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## In the vicinity of the steering wheel



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2  Safety switch 99

3  Power windows 96

4 Exterior mirror adjustment button 111

5 Seating comfort features

 Memory function 113

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6  Buttons for the central locking system 91

 Unlocking

 Locking

7 Lights



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Adaptive lighting functions [167](#)

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## 8 Turn signal lever



Turn signal [161](#)



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## 10 Steering wheel buttons, left



Turn speed control systems on/off [229](#)



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## 12 M1 [216](#)



## M2 [216](#)



## 13 Instrument cluster [138](#)

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Settings for Head-up display [140](#)



Volume, see Owner's Manual for Navigation, Entertainment and Communication [6](#)



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## 15 Wiper lever



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## 17 Adjusting the steering wheel [113](#)

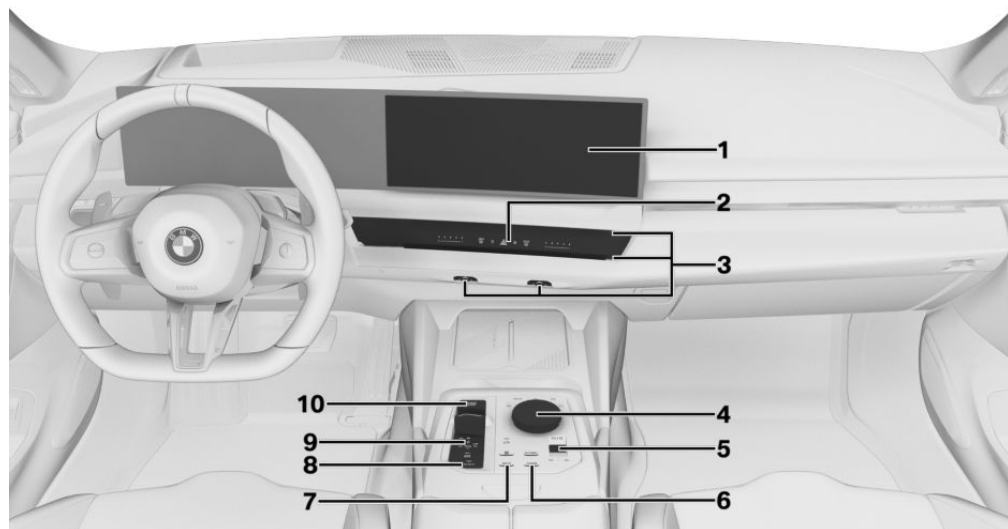


## 18 Unlocking the hood, in the footwell trim [368](#)



- 19  Opening and closing cargo area  
87

## In the vicinity of the center console

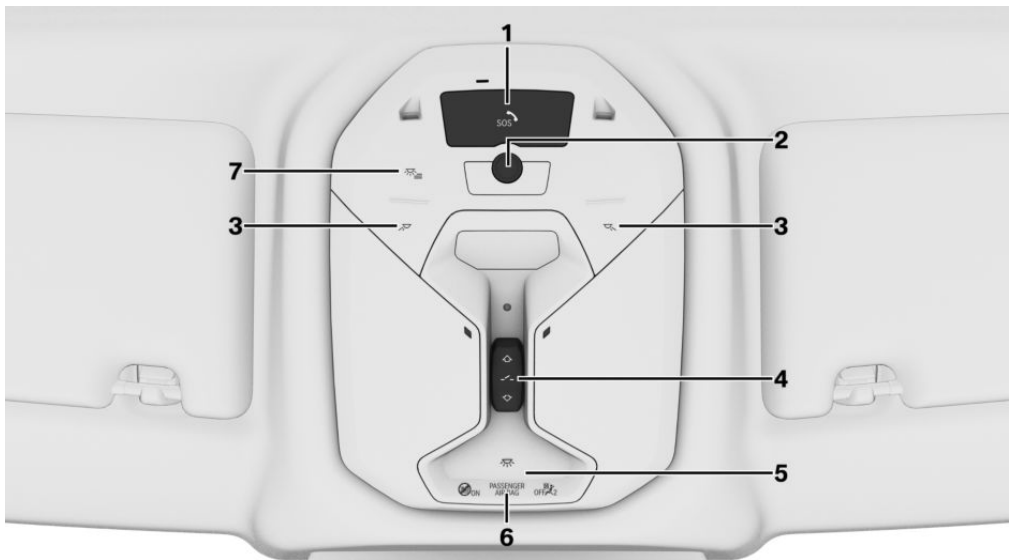


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-  Defrost function 290
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- 3 Ventilation 292
- 4 Controller with buttons 55
- 5 Operating elements for entertainment system, see Owner's Manual for Navigation, Entertainment, Communication 6

-  Adjusting the volume
-  Station/title forward
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- 6  M HYBRID 135
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- 7  Parking assistance systems [253](#)
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- 10  Turning drive-ready state on/off [122](#)

## In the vicinity of the headliner



- 1  Emergency call, SOS [384](#)
- 2 Camera  
Interior camera [303](#)
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- 6**  Indicator light, front passenger  
airbag [175](#)

- 7**  Interior lighting menu [52](#)

# Sensors of the vehicle

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

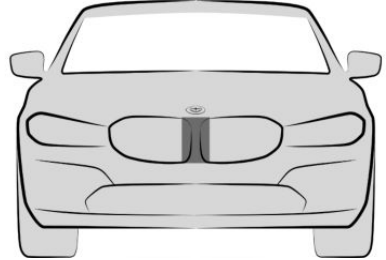
## Overview

Depending on the equipment, the following cameras and sensors are installed in the vehicle:

- ▶ Front camera.
- ▶ Camera behind the windshield.
- ▶ Top view cameras.
- ▶ Rear View Camera.
- ▶ Front radar sensor.
- ▶ Radar sensors, side, front.
- ▶ Radar sensors, side, rear.
- ▶ Ultrasonic sensors in the front/rear bumpers.
- ▶ Ultrasonic sensors, side.

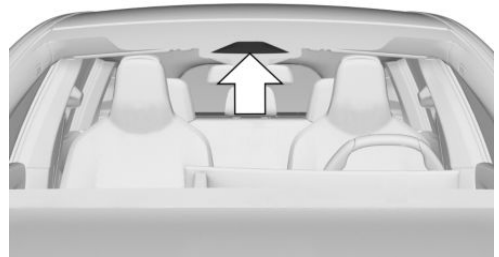
## Cameras

### Front camera



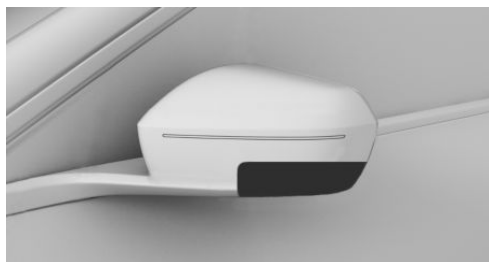
The front camera is located in the radiator grille.

### Camera behind the windshield



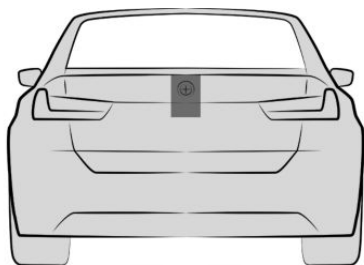
The camera behind the windshield is located near the interior mirror.

## Top view cameras



One exterior mirror camera is located at the bottom of each exterior mirror housing.

## Rear View Camera



The Rear View Camera is located in the handle strip on the rear of the vehicle.

## Functional requirement of the cameras

The areas of the cameras are clean and clear.

Additional information:

- ▶ Washing the vehicle, refer to page [391](#).
- ▶ Vehicle care, refer to page [393](#).

## System limits of the cameras

The cameras may not work properly, e.g., show something that is incorrect, in the following situations:

- ▶ In heavy fog, wet conditions, or snowfall.
- ▶ On steep hills, in steep depressions or in tight curves.

- ▶ When the camera field of view is covered, for instance by a fogged up windshield or labels.
- ▶ If the camera lens is dirty or damaged.
- ▶ With exterior mirrors folded in.
- ▶ With open doors or open cargo area.
- ▶ When driving toward bright lights or strong reflections, e.g., setting sun.
- ▶ When it is dark outside.
- ▶ The camera has overheated due to excessive temperatures and temporarily turned off.
- ▶ During calibration of the camera immediately after vehicle delivery.

If applicable, a Check Control message will be displayed when the system limits are reached.

## Radar sensors

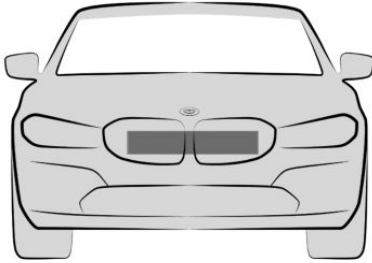
### Safety information

#### **WARNING**

The vehicle radar sensors, and thus the driver assistance systems, can be negatively affected by external influences, e.g., interference. There is a risk of accident, injury, and property damage. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

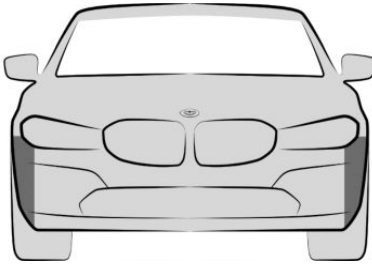


## Front radar sensor



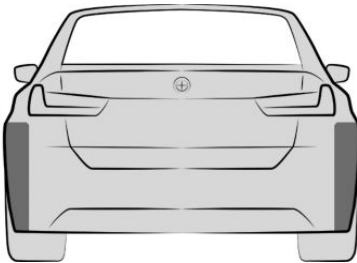
The front radar sensor is located in the radiator grille.

## Radar sensors, side, front



The radar sensors are located on the side of the front bumper.

## Radar sensors, side, rear



The radar sensors are located on the side of the rear bumper.

## Functional requirement of the radar sensors

The areas of the radar sensors are clean and clear.

Additional information:

- ▶ Washing the vehicle, refer to page [391](#).
- ▶ Vehicle care, refer to page [393](#).

## System limits of the radar sensors

The function of the radar sensors may be restricted or not available, for instance in the following situations:

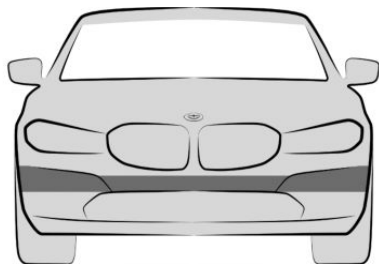
- ▶ In case of dirty sensors.
- ▶ In case of iced-up sensors.
- ▶ If sensors are covered such as by labels, films or a license-plate carrier.
- ▶ If the sensor is not aligned correctly, for instance due to parking damage.
- ▶ If the radiation range of the sensors is covered, e.g., by protruding cargo.
- ▶ When the field of view of the sensors is covered, e.g., by garage walls, hedges, snow hills, vehicles or trailers.
- ▶ After improper paint work on the vehicle in the area of the sensors.
- ▶ On steep hilltops or in sharp dips in the road.

If applicable, a Check Control message will be displayed when the system limits are reached.



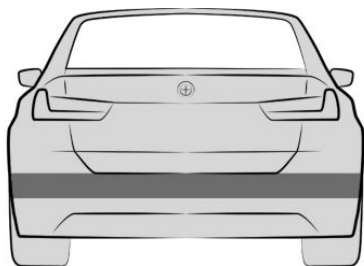
## Ultrasonic sensors

### Ultrasonic sensors, front



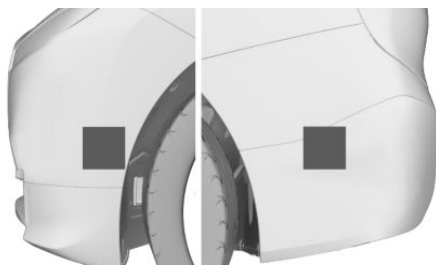
The ultrasonic sensors are located in the front bumper.

### Ultrasonic sensors, rear



The ultrasonic sensors are located in the rear bumper.

### Ultrasonic sensors, side



The ultrasonic sensors are located on the sides of the front and rear bumpers.

## Functional requirement of the ultrasonic sensors

The areas of the ultrasonic sensors are clean and clear.

Additional information:

- ▶ Washing the vehicle, refer to page [391](#).
- ▶ Vehicle care, refer to page [393](#).

## System limits of the ultrasonic sensors

The detection of objects with ultrasonic measurements can run into physical limits, e.g., in the following situations:

- ▶ If the sensors are dirty or covered, e.g., by stickers.
- ▶ If the sensor is not aligned correctly, for instance due to parking damage.
- ▶ After improper paint work on the vehicle in the area of the sensors.
- ▶ For small children and animals.
- ▶ For persons with certain clothing, for instance jacket.
- ▶ With obstacles and persons at the edge of the lane.
- ▶ In case of external interference with the ultrasonics, for instance from passing vehicles, loud machines or other ultrasonic sources.
- ▶ Under certain weather conditions, e.g., high moisture, wet conditions, snowfall, cold, extreme heat, or strong wind.
- ▶ With tow bars and trailer hitches of other vehicles.
- ▶ With thin or wedge-shaped objects.
- ▶ With moving objects.
- ▶ With elevated, protruding objects such as ledges.
- ▶ With objects with corners, edges, and smooth surfaces.

- ▷ In the case of objects with fine surfaces or structures, e.g., wire mesh fences.
- ▷ For objects with porous surfaces.
- ▷ With small and low objects, for instance boxes.
- ▷ Low objects already displayed, for instance curbs, can be outside of the detection ranges of the sensors.
- ▷ With soft obstacles or obstacles covered in foam material.
- ▷ With plants and bushes.
- ▷ In car washes and tunnel car washes.
- ▷ In the event of uneven floors, e.g. speed bumps.
- ▷ If there are large amounts of exhaust gas.
- ▷ Cargo that extends beyond the perimeter of the vehicle is not taken into account by the ultrasonic sensors.

If applicable, a Check Control message will be displayed when the system limits are reached.

## Turning on camera cleaning manually

---

When drive-ready state is turned on, the control display will show a recommendation to clean the front camera and Rear View Camera if soiling is detected.

Cleaning can also be turned on manually as needed.

1.  Apps menu
2. "Vehicle"
3. "Parking"
4. "More"
5. "Camera cleaning"
6. Select the desired setting.

# Operating state of the vehicle

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## General information

Depending on the situation, the vehicle will be in one of three operating states:

- ▷ Idle state, refer to page 45.
- ▷ Standby state, refer to page 46.
- ▷ Drive-ready state, refer to page 46.

## Safety information

### WARNING

An unsecured vehicle can begin to move and possibly roll away. There is a risk of accident, injury, and property damage. Before leaving the vehicle, secure the vehicle against rolling away.

In order to ensure that the vehicle is secured against rolling away, observe the following:

- ▷ Set the parking brake.
- ▷ Make sure that selector lever position P is engaged.
- ▷ On uphill grades or on downhill slopes, turn the front wheels in the direction of the curb.
- ▷ On uphill grades or on downhill slopes, also secure the vehicle, for instance with a wheel chock.

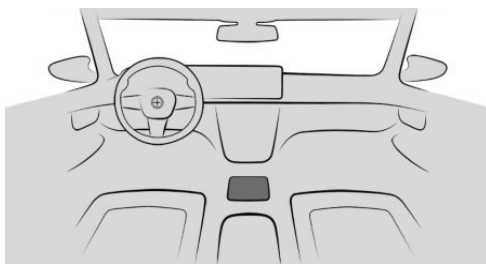
### WARNING

Unattended children or animals in the vehicle can cause the vehicle to move and endanger themselves and traffic, for example, due to the following actions:

- ▷ Establishing standby.
- ▷ Releasing the parking brake.
- ▷ Opening and closing the doors or windows.
- ▷ Engaging selector lever position N.
- ▷ Using vehicle equipment.

There is a risk of accident, injury, and property damage. Do not leave children or animals unattended in the vehicle. Take the vehicle key with you when exiting and lock the vehicle.

## Overview



| Operating element | Function |
|-------------------|----------|
|-------------------|----------|



Start/Stop button.



Volume button.

## Establishing idle state when opening the front doors

After a trip, idle state can be established by opening the front doors. For this purpose, all passengers must exit the vehicle.

1.  Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Lock/unlock"
5. "Turn off after opening door"

## Establishing the idle state manually

To establish idle state in the vehicle after completion of trip:



Press and hold the volume button on the center console until all displays go out.

## Idle state

### Principle

When the vehicle is in idle state, it is switched off.

### General information

The vehicle is in idle state prior to opening from the outside and after exiting and locking.

### Establishing idle state automatically

Idle state is established automatically such as in the following situations:

- After several minutes, if no operation takes place on the vehicle.
- If the charge state of the vehicle battery is low.
- Depending on the configuration via iDrive: One or both front doors will be opened after driving when exiting the vehicle.

In some situations, the idle state is not set automatically, for instance during a phone call or when the low-beam headlights are switched on.

## Deep sleep mode

### Principle

Deep sleep mode is activated to prevent the vehicle battery from discharging when the vehicle is stationary for several weeks.

In deep sleep mode, the vehicle functions are limited to the essentials.

### General information

Use deep sleep mode for long stationary periods.

In addition, follow the instructions on long stationary periods in the Service life of the high-voltage battery section.

When the vehicle is shut down for longer than three months, some special measures are necessary. For more information, contact an authorized service center or another qualified service center or repair shop.

Additional information:

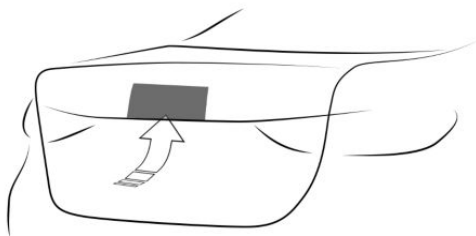
High-voltage battery service life, refer to page 337.

## Activating/deactivating deep sleep mode

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Deep sleep mode"
5. Select the desired setting.

Deep sleep mode deactivates automatically when drive-ready state is turned on.

## Access to the vehicle



Press the button on the cargo area to access the vehicle while in deep sleep mode. Deep sleep mode remains on in this case.

## Standby state

### Principle

When standby state is switched on, most functions can be used while the vehicle is stationary. Desired settings can be adjusted.

### General information

The vehicle is in standby state after the front doors are opened from the outside.

## Turning on standby state manually

### General information

Standby can be switched back on after the vehicle is automatically set to idle state.

### Via the volume button



Push the volume button on the center console. The control display and the instrument cluster illuminate.

### Using the Start/Stop button



Press the Start/Stop button.

The control display and the instrument cluster illuminate.

### Display in the instrument cluster



OFF is displayed in the instrument cluster. Drive-ready state is turned off and standby state turned on.

## Drive-ready state

### Principle

The following are the different drive-ready state variants:

- Electric drive-ready state.
- Starting of combustion engine.

### General information

If the corresponding requirements are met, electric drive-ready state can be used or the combustion engine can be started.

## Safety information

### **DANGER**

If the exhaust pipe is blocked or ventilation is insufficient, harmful exhaust gases can penetrate the vehicle. The exhaust gases contain pollutants which are colorless and odorless. In enclosed areas, exhaust gases can also accumulate outside of the vehicle. There is a danger to life. Keep the exhaust pipe free and ensure sufficient ventilation.

### **WARNING**

When driving in electric mode, pedestrians and other road users might pay less attention to the vehicle due to the lack of engine noise. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Turning on the drive-ready state

1. Close the driver's door.
2. Depress the brake pedal.
3. Press the Start/Stop button.

Most of the indicator lights and warning lights on the instrument cluster illuminate for different lengths of time.

Drive-ready state is switched on.

## Electric drive-ready state

### Principle

The vehicle is ready to drive without starting the combustion engine and is driven by the electric motor.

## Functional requirements

Electric drive-ready state can be used if the corresponding requirements for electric drive are met.

Additional information:

BMW eDRIVE, refer to page 16.

## Display in the instrument cluster



READY

When the drive-ready state is switched on, READY is displayed in the instrument cluster.

## Combustion engine start

The combustion engine is started under the following conditions when the drive-ready state is switched on:

- ▶ The temperature of the hybrid system is too high or too low.
- ▶ The high-voltage battery has insufficient charge.

## Turning off drive-ready state

1. While the vehicle is stationary, press the brake pedal and engage selector lever position P.
2. Set the parking brake.
3. Press the Start/Stop button.

The READY indicator goes out and a signal tone sounds.

The vehicle switches into standby state.

Depending on vehicle settings, the parking brake engages automatically when drive-ready state is turned off.

In selector lever position N, the parking brake will not be engaged automatically.

After parking the vehicle, the hybrid system may generate audible operating noises, e.g., when cooling the high-voltage battery.

Additional information:



Parking brake, refer to page [132](#).



# BMW iDrive

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Display and operating concept

### Principle

BMW iDrive is the vehicle's display and operating concept and includes a wide range of functions.

### General information

Depending on vehicle equipment, the functions can be operated as follows:

- ▶ Via the control display.
- ▶ Via the Controller.
- ▶ Via the touchpad.
- ▶ Via the BMW Intelligent Personal Assistant.
- ▶ Via the operating elements on the steering wheel.

Additional information:

Instrument cluster, refer to page 138.

## Safety information

### WARNING

Operating the integrated information systems and communication devices while driving can distract from surrounding traffic. It is possible to lose control of the vehicle. There is a risk of

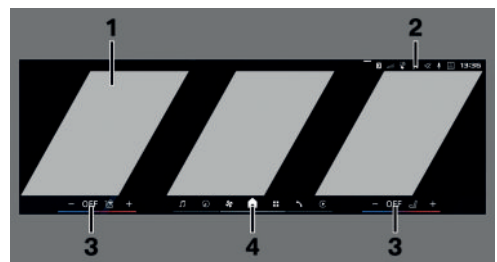
accident, injury, and property damage. Only use the systems or devices when the traffic situation allows. As warranted, stop and use the systems and devices while the vehicle is stationary.

## Main menu

### General information

The main menu is divided into different areas.

### Overview



- 1 Widgets
- 2 Status information
- 3 Temperature setting
- 4 Menu bar

## Menu bar

### Apps menu

 Access to apps and vehicle functions. A filter can be selected. If necessary, change the filter to see the desired apps.

- ▶ "All apps": All apps and functions are displayed.
- ▶ "Infotainment": Only infotainment apps are displayed.

- ▶ "Vehicle": Only vehicle adjustment functions are displayed.
- ▶ "Recently used": Recently used apps are displayed.

### Media menu

 Access to functions of the entertainment system, e.g., radio stations or connection with external devices.

### Communication menu

 Access to the telephone and message function as well as the connection and management of mobile devices such as smartphones.

### Navigation menu

 Access to the navigation system, destination input and traffic bulletins. Configurable map views and other functions such as points of interest.

### Climate menu

 The Climate menu provides access to all climate control functions.

### Apple CarPlay® menu

 Depending on the national-market version with a connected function: Access to Apple CarPlay. Apple CarPlay enables the secure use of certain functions of a compatible Apple iPhone via iDrive.

### Android Auto® menu

 Depending on the national-market version with a connected function: Access to Android Auto. Android Auto enables the secure use of certain functions of a compatible Android smartphone via iDrive.

## Widgets

Widgets show real-time information and dynamic content such as current media or paired

smartphones. The widgets also serve as buttons and allow jumping to the relevant menu.

## Status information

### General information

The status field can be found in the upper area of the control display. Status information is displayed in the form of icons. Depending on the equipment and national-market version, different icons are available.

### Telephone status information

| Icon                                                                              | Meaning           |
|-----------------------------------------------------------------------------------|-------------------|
|  | Active call.      |
|  | Signal strength.  |
|  | SIM card missing. |

### Entertainment status information

| Icon                                                                                | Meaning                         |
|-------------------------------------------------------------------------------------|---------------------------------|
|    | USB audio.                      |
|    | Bluetooth audio.                |
|    | Smartphone audio.               |
|   | Connected Music with Spotify.   |
|  | Time shift.                     |
|  | Wi-Fi.                          |
|  | Apple CarPlay.                  |
|  | Android Auto.                   |
|  | Satellite radio is switched on. |

### Status information messages

| Icon                                                                                | Meaning                  |
|-------------------------------------------------------------------------------------|--------------------------|
|  | Number of notifications. |
|  | Check Control message.   |

| Icon                                                                             | Meaning                       |
|----------------------------------------------------------------------------------|-------------------------------|
|  | Suppress private information. |
|  | Do not disturb.               |
|  | Message.                      |

Additional information:

Owner's Manual for Navigation, Entertainment, and Communication, refer to page 6.

### Other status information

| Icon                                                                             | Meaning                                   |
|----------------------------------------------------------------------------------|-------------------------------------------|
|  | Sound output active.                      |
|  | Sound output deactivated.                 |
|  | Activation word active.                   |
|  | BMW ID or driver profile.                 |
|  | Destination guidance active.              |
|  | Go to quick access.                       |
|  | Wireless charging active.                 |
|  | Park Distance Control: Sound active.      |
|  | Park Distance Control: Sound deactivated. |

## Input and display

### Letters and numbers

Letters and numbers can be entered using the controller, touchpad, control display, or voice control, depending on vehicle equipment.

| Icon                                                                               | Function                                       |
|------------------------------------------------------------------------------------|------------------------------------------------|
|  | Change between capital and lower-case letters. |
|  | Enter a blank space.                           |
|  | Switching between languages.                   |
|  | Use voice control.                             |

| Icon                                                                              | Function                                   |
|-----------------------------------------------------------------------------------|--------------------------------------------|
|  | Confirm entry.                             |
|  | Shift the input area to the left or right. |

### Entry comparison

When entering data from a database such as contacts, the selection is gradually narrowed down for each character entered, with characters being added as necessary.

### Activating/deactivating the functions

Some menu items are preceded by an icon. Selecting the menu item enables or disables the function.

| Icon                                                                                                                                                                                                                                                  | Meaning                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|    | Function is activated.   |
|    | Function is deactivated. |

### Enabling/disabling audible feedback

For some functions, audio confirmation is given, e.g., sounds are emitted when operating the control display.

-  Apps menu
- "Vehicle"
- "System settings"
- "Sound"
- Select the desired setting.

### Quick access

The quick link provides access to shortcuts, certain settings, and app recommendations.

| Input            | Operation                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| Show quick link. | Swipe from top to bottom on the control display.<br>Slide the controller up.<br>— Tap the icon on the status bar. |
| Hide quick link. | Swipe from the bottom up on the control display.<br>Slide the controller down.                                    |

## Activating/deactivating pop-ups

For some functions, pop-ups are displayed automatically on the control display. Some of these pop-ups can be activated or deactivated.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Pop-ups"
5. Select the desired setting.

## Shortcuts

### General information

The iDrive functions can be stored on the shortcuts and called up directly, for instance radio stations, navigation destinations, phone numbers and menu entries.

### Storing a function

1. Select the desired function.
2. Press and hold the desired function.
3. "Add to shortcuts"

Shortcuts can only be created with an active BMW ID or a driver profile.

### Executing a function

1. Swipe from top to bottom on the control display.
2. Tap the desired shortcut.

The function will work immediately. This means for instance that the connection is established when a phone number is selected.

### Deleting shortcuts

1. Swipe from top to bottom on the control display.
2. Press and hold the desired shortcut.
3. "Delete shortcut"

## Direct access

### General information

The vehicle has buttons that can be used to access menus for the respective function directly on the control display. Then continue the operation via iDrive.

### Overview

| Button                                                                              | Function                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|    | Go to the Exterior Lighting menu between the steering wheel and driver's door. |
|   | Go to the Interior Lighting menu on the headliner.                             |
|  | Go to the Seat Settings menu on the driver's door.                             |

## BMW Curved Display

### Principle

The BMW Curved Display is a single-screen display in the instrument panel that is curved towards the driver. The BMW Curved Display comprises the instrument cluster on the driver's side and the control display.

## General information

Follow instructions for cleaning the BMW Curved Display in the Care chapter.

Additional information:

Caring for special components, refer to page [394](#).

## Overview



**1** Instrument cluster [138](#)

**2** Control display [53](#)

## Control display

### Principle

The iDrive functions are displayed on the control display.

### Safety information

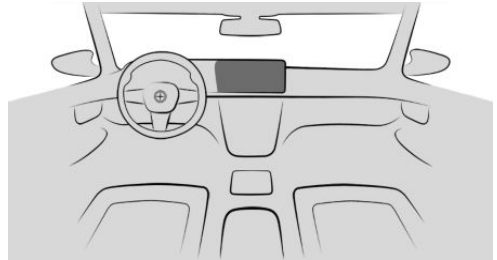
#### **WARNING**

When driving, loose items or devices connected to the vehicle with a cable, i.e., mobile phones, may be thrown around the vehicle, e.g., in the event of an accident or when braking or performing evasive maneuvers. There is a risk of injury and risk of property damage. Secure loose objects or devices that are connected to the vehicle via a cable.

#### **WARNING**

Objects in the area in front of a display can slip and damage the display. There is a risk of injury and risk of property damage. Do not place objects in the area in front of a display.

## Overview



Control display.

### Switching the control display on/off automatically

The control display is turned on automatically when the vehicle is unlocked or as soon as the control display is needed for operation.

In certain situations, the control display is switched off automatically, for instance if no operation is performed on the vehicle for several minutes.

### Switching the control display on/off manually

1. Swipe from top to bottom on the control display.

2. "Screen off"

Tap the control display to turn it on again.

### Setting the brightness

1.  Apps menu

2. "Vehicle"

3. "Interior lighting"

4. "Cockpit brightness at night"
5. Make the desired setting.

Depending on the light conditions, the brightness control may not be clearly visible.

## System limits

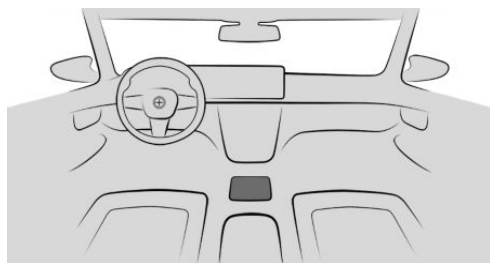
In the case of very high temperatures on the control display, for instance due to intense solar radiation, the brightness may be reduced down to complete deactivation. Once the temperature is reduced, for instance through shade or air conditioning system, the normal functions are restored.

## Controller

### Principle

The Controller can be used to select menu items and enter the settings. The buttons can be used to open the menus directly.

### Overview



Controller.

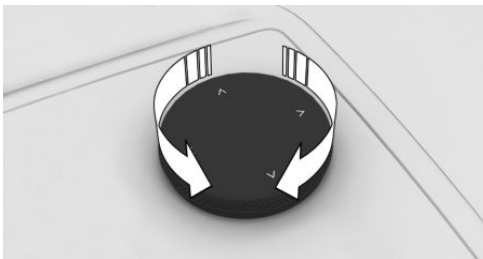
### Buttons on the Controller

| Button                                                                             | Function               |
|------------------------------------------------------------------------------------|------------------------|
|  | Call up the main menu. |
|  | Go to the Media menu.  |

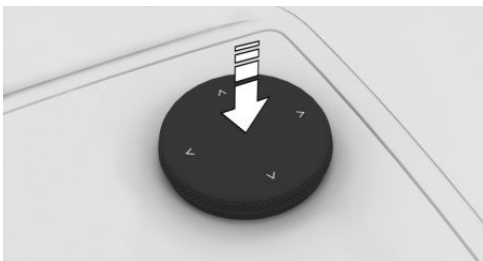
| Button                                                                            | Function                   |
|-----------------------------------------------------------------------------------|----------------------------|
|  | Go to the Phone menu.      |
|  | Go to the Navigation menu. |
|  | Go to the previous menu.   |

### Operation

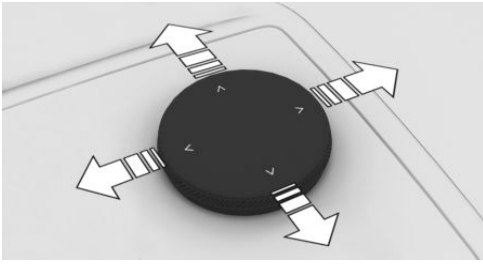
- ▶ Rotate the Controller to switch between menu options, for example.



- ▶ Press the Controller to select a menu option, for example.



- ▶ Slide the Controller in four directions to switch between menus, for example.



## Operating via the Controller

### Opening the main menu



Press the button.

The main menu is displayed.

### Selecting menu items

1. Turn the Controller until the desired menu item is highlighted.
2. Press the Controller.

### Adjusting the main display

The main display can be adjusted in the main menu.



1.  Press the button.
2. If necessary, tilt the Controller to select the main display.
3. Tilt the Controller to the right.
4. Select the desired main display.

### Selecting a widget

1. Use the Controller to select widgets.
2. If necessary, turn the Controller until the desired widget is selected.
3. Press the Controller.

### Switching between menus

A new display opens after a menu item is selected.

- ▶ Slide the Controller to the left.

The current menu closes and the previous menu is displayed.



- ▶  Press the button.

The current menu closes and the previous menu is displayed.

### Calling up the context menu

Depending on the menu item, a context menu with additional options can be displayed.

1. Select the desired menu item using the Controller.
2. Press and hold the Controller.

The menu consists of various areas, for instance:

- ▶ "General help": Go to the Integrated Owner's Manual.
- ▶ "Add to shortcuts": Define menu item as shortcut.

### Entering letters and numbers

Letters and numbers can only be entered when stationary.

### Input

1. Turn the Controller: Select letters or numbers.
2. **OK** : Confirm entry.

Additional information:

Setting the system language, refer to page [60](#).

## Deleting an entry

### Icon Function

- |                                                                                 |                                                           |
|---------------------------------------------------------------------------------|-----------------------------------------------------------|
|  | Press controller: Delete a letter or number.              |
|  | Press and hold controller: Delete all letters or numbers. |

## Using alphabetical lists

For alphabetical lists with more than 30 entries, the letters for which an entry exists can be displayed in a text box.

1. Turn the Controller to the left or right quickly.
2. Select the first letter of the desired entry.  
The first entry of the selected letter is displayed in the list.

## Operation via touchpad

### General information

Depending on vehicle equipment, some iDrive functions can be operated with the controller touchpad.

The touchpad is located on the Controller. Touch the touchpad with your fingers. Do not use any objects.

### Selecting functions

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Touchpad"
5. Select the desired setting.

## Entering letters and numbers

- ▷ Enter characters as they are displayed on the control display.
- ▷ Always enter associated characters such as accents or periods so that the letter can be clearly recognized.
- ▷ The set language determines what input is possible. Where necessary, enter special characters via the Controller.

Additional information:

Setting the system language, refer to page 60.

## Entering special characters

| Function             | Operation                                             |
|----------------------|-------------------------------------------------------|
| Delete a character.  | Swipe to the left on the touchpad.                    |
| Enter a blank space. | Swipe to the right in the center of the touchpad.     |
| Enter a hyphen.      | Swipe to the right in the upper area of the touchpad. |
| Enter an underscore. | Swipe to the right in the lower area of the touchpad. |

## Using the map

The map in the navigation system can be moved via the touchpad.

Tap the map on the control display and then continue operation using the touchpad.

| Function      | Operation                           |
|---------------|-------------------------------------|
| Move map.     | Swipe in the appropriate direction. |
| Display menu. | Tap once.                           |



## Using alphabetical lists

Alphabetical lists with more than 30 entries permit a direct jump to letters for which an entry exists.

Enter the first letter on the touchpad.

The first entry of the entered letter is displayed in the list.

## Operation via control display

### General information

Depending on the equipment version, the control display is equipped with a touchscreen.

You can tap on menu items and widgets. Touch the control display with your fingers. Do not use any objects.

### Opening the main menu

 Tap on the icon.

The main menu is displayed.

### Adjusting widgets

The widgets can be adjusted in the main menu. The adjustments can only be performed when the vehicle is stationary.

1. If necessary,  tap the icon.
2. Press and hold the widget.
3. Make the desired adjustment:
  - ▶  Tap on the icon.  
A new widget can be selected.
  - ▶  Tap on the icon.  
The widget is deleted.
  - ▶ Press and hold the widget and drag it up or down.  
The widget is moved to the desired position.

## Sorting apps

To resort the app icons, press and hold the desired icon and move it to the desired location.

### Switching between menus

A new display opens after a menu item is selected.

◀ Select the arrow symbol.

The current menu closes and the previous menu is displayed.

### Calling up the context menu

Depending on the menu item, a context menu with additional options can be displayed.

Press and hold the desired menu item.

The menu consists of various areas, for instance:

- ▶ "General help": Go to the Integrated Owner's Manual.
- ▶ "Add to shortcuts": Define menu item as shortcut.

## Entering letters and numbers

### Input

1. If necessary, tap the  icon or control display.
2. Enter desired letters and numbers.

### Deleting an entry

| Icon                                                                                | Function                                                |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|
|  | Tap icon: Delete a letter or a number.                  |
|  | Press and hold the icon: Delete all letters or numbers. |

## Using the map

The navigation map can be moved on the control display.

| Function            | Operation                           |
|---------------------|-------------------------------------|
| Move map.           | Swipe in the appropriate direction. |
| Enlarge/shrink map. | Drag in or out with the fingers.    |
| Display menu.       | Tap once.                           |

## Using alphabetical lists

For alphabetical lists with more than 30 entries, the letters for which an entry exists can be displayed in a text box.

1. Tap the letter in front of the list.  
A letter box is displayed.
2. Tap the first letter of the desired entry.  
The first entry of the selected letter is displayed in the list.

# BMW Intelligent Personal Assistant

## Principle

The BMW Intelligent Personal Assistant is a personal assistant that enables natural voice operation of various vehicle functions. The Personal Assistant makes it easier to operate the vehicle by providing proactive suggestions and automating habits.

## General information

- ▶ BMW Intelligent Personal Assistant is available depending on national-market version.
- ▶ The system includes special microphones on the driver side and front passenger side.
- ▶ Say the commands and numbers fluently as well as with normal volume, emphasis, and speed.
- ▶ »...« identifies commands that can be spoken.

## Functional requirements

- ▶ A language that is supported by the Personal Assistant must be set via iDrive.  
Setting the system language, refer to page 60.
- ▶ Always say commands in the configured system language.

For the full range of functions, you must activate, configure, or purchase the following functions:

- ▶ Online speech processing, refer to page 61.
- ▶ All settings under:  
Data protection, refer to page 68.
- ▶ Activation word, refer to page 59.
- ▶ BMW ID or a driver profile.
- ▶ Relevant ConnectedDrive services from the ConnectedDrive Store.
- ▶ Suggestions, refer to page 61.

## Activating the voice control system

### General information

There are various methods for activating the voice control feature:

- ▶  Press the button on the steering wheel briefly.  
The microphone on the driver's side is active.
- ▶ Speaking the activation word.  
The microphones on the driver's or front passenger's side are active with the following voice control, depending on where the activation word was spoken.

Then say the command. The activation word and the command can be spoken without pause in one sentence.

## Microphone button on steering wheel



1. Press button briefly.
2. Say the command.

## Activation word

### General information

Saying the activation word will start the Personal Assistant. The Personal Assistant listens.

### Preset activation word

>Hello BMW<: The default activation word can be activated and deactivated.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Wake word"
7. ""Hello BMW""

### Personal activation word

In addition to the preset activation word, a personal activation word can be set up with an active BMW ID or a driver profile. The personal activation word can also be changed or deleted.

The activation word should consist of multiple syllables to ensure good recognition.

>Hello<: The additional phrase is not necessary for the activation word and does not need to be spoken.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Wake word"

7. "Personal wake word"
8. "Set"
9. "Start recording"

### Activation word from third-party providers

Depending on national-market version, some third-party providers offer digital voice assistants, e.g., Amazon Alexa.

To use Siri, the smartphone must be connected via Apple CarPlay.

The activation word from connected third-party providers can be used in addition to your preset or personal activation word from BMW.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Additional speech assistants"
6. Select the desired setting.

## Canceling voice control



- ▷ Press the button on the steering wheel again.
- ▷ >Cancel<
- ▷ Slide the Controller to the right or left.
- ▷ Press the Controller.

## Possible commands

### General information

Commands can be used to give instructions or ask questions, with the Personal Assistant providing assistance.

For example, you can call contacts, navigate to an address, apply settings, or ask questions about a vehicle function. Most vehicle functions can be operated via voice commands, e.g., the Automatic Park Assistant.



Most content on the control display can be spoken as commands, e.g., menu items or list entries.

## Help for voice control

- ▷ ›Voice commands‹: Have possible example commands suggested.
- ▷ ›General information on voice control‹: Have information on the operating principle of the voice control announced.
- ▷ ›Help‹: Have tips and example commands for voice control announced.
- ▷ Additional example commands for the current context are displayed in the widget of the BMW Intelligent Personal Assistant.

## Sample commands

- ▷ ›Call John Smith‹
- ▷ ›Drive me to JFK airport‹
- ▷ ›Play a classical music station‹
- ▷ ›Is my tire pressure still OK?‹
- ▷ ›Activate the climate control‹
- ▷ ›Increase the ACC distance‹

Additional example commands can be displayed on the control display.

1. ■■ Apps menu
2. "All apps"
3. "Personal Assistant"
4. "Help"
5. "Example commands"

Sample commands for the current context are displayed in the BMW Intelligent Personal Assistant widget.

Additional information:

Adjust widgets, refer to page 57.

## Menu items

The Personal Assistant can bring up menu items directly. Say the menu items as they are displayed on the control display. You do not

have to follow the order of the menu items when speaking them out loud.

1. Activate the voice control system.
2. ›Media‹
3. ›Presets‹

The stored stations are displayed on the control display.

## Owner's Manual via voice operation

You can ask simple questions about vehicle functions and the operation of the vehicle.

The voice activation system and the feedback it provides do not replace the printed or Integrated Owner's Manual. The function is available depending on the national-market version. The speech recognition and quality of the feedback may vary.

Example command: ›How can the passenger airbag be deactivated?‹

The Personal Assistant returns feedback. When stationary, the section of the integrated Owner's Manual is displayed on the control display.

## Settings

### Setting the system language

1. ■■ Apps menu
2. "Vehicle"
3. "System settings"
4. "Language"
5. Select the desired setting.

### Setting the response length

You can set the Personal Assistant to use standard dialog or a short version. In case of the short version, the announcements by the Personal Assistant are played back in an abbreviated version.

1. ■■ Apps menu
2. "Vehicle"

3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Response length"
7. Select the desired setting.

## Speaking during voice output

It is possible to answer during inquiries of the Personal Assistant. The function can be disabled if requests are often canceled unintentionally, for instance due to background noise or conversations in the vehicle.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Speaking during voice output"

## Suggestions

### General information

The Personal Assistant provides helpful, individual suggestions.

### Activating/deactivating suggestions

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Receive suggestions"

### Adapting suggestions

Suggestions can be adapted, for example, by category or to output a signal tone.

1.  Apps menu
2. "Vehicle"
3. "System settings"

4. "Voice control"
5. "Personal Assistant (BMW)"
6. Select the desired setting.

## Online speech processing

Online speech processing improves the quality of the speech recognition and search results for points of interest. To use the functions, data is transmitted to a service provider via an encrypted connection and stored locally there. An active ConnectedDrive contract is required for online voice processing. ConnectedDrive is available depending on the national-market version. Online speech processing is not available in all languages.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Online speech processing"

## Configuring the visualization

How the Personal Assistant is visualized can be set.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Visualization"

## Voice control from third-party providers

Depending on vehicle equipment, third-party voice control can be enabled by pressing and holding the microphone button on the steering wheel.

1.  Apps menu
2. "Vehicle"



3. "System settings"
4. "Voice control"
5. "Long press"
6. Select the desired setting.

## Voice control in rear

Depending on vehicle equipment, the Personal Assistant can be started and operated from the rear by saying the activation word.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Voice control"
5. "Personal Assistant (BMW)"
6. "Rear voice control"

## Adjusting the volume

Turn the volume button during the voice guidance until the desired volume is set.

The volume remains constant even if the volume of other audio sources is changed.

## Using the voice activation of the smartphone

Depending on the device, a smartphone connected to the vehicle can be used via voice control.

The device must be connected via Apple CarPlay or Android Auto.

1. Press and hold the  button on the steering wheel for approx. 3 seconds.  
The voice activation of the smartphone is activated.  
If activation is successful, a confirmation appears on the control display.
2. Press and hold the  button on the steering wheel to cancel voice control of the smartphone.

## Amazon Alexa Car Integration

### Principle

Amazon Alexa Car Integration is available depending on vehicle equipment and national-market version. Alexa is a digital assistant from Amazon. With Amazon Alexa Car Integration, Alexa can be used in the vehicle. For safety reasons, the use of some Alexa functions may be restricted while driving your vehicle.

### Functional requirements

- ▷ A BMW ID or driver profile is activated.
- ▷ An active Amazon account must exist.

### Activating Amazon Alexa Car Integration

Amazon Alexa Car Integration is activated in the vehicle and My BMW app if necessary.

Follow the instructions from the Amazon Alexa app to set it up in the vehicle.

1.  Apps menu
2. "All apps"
3. "Amazon Alexa"
4. Select the desired setting.

After setting it up, use Amazon Alexa in the vehicle as follows:

Say the activation word Alexa and the desired command.

Information about the active function is displayed on the control display. If the function is restricted, reconnect Bluetooth and Wi-Fi as necessary.

### Automating routines

### General information

The Personal Assistant can automate routine actions such as automatically opening the windows when reaching a predefined location.

Rules are created for this purpose, which can be activated and deactivated at any time.

## Activating/deactivating routines

1.  Apps menu
2. "All apps"
3. "Automate habits"
4. Select the desired setting.

## System limits

- ▷ The Personal Assistant provides information about vehicle functions that may not be installed in the vehicle.  
This also applies to safety functions and systems.
- ▷ Certain noises can be detected and may lead to problems. Keep the doors and windows closed.
- ▷ Noises from the front passenger or occupants can impair the system. Avoid making other noise in the vehicle while speaking.
- ▷ Major language dialects can cause problems with the speech recognition feature.
- ▷ A poor data connection affects the response time of the Personal Assistant and search function.

## Connecting mobile devices to the vehicle

### Principle

Mobile devices can be used in the vehicle for various functions. Pairing with the vehicle is beneficial when using mobile devices:

- ▷ Operating the mobile device via iDrive.
- ▷ Making calls via the hands-free system.
- ▷ Better connection to the telephone network and internet using the vehicle's cell phone antennas.

- ▷ Listen to music on the vehicle's sound system.
- ▷ Surf the internet via personal hotspot on the vehicle's integrated SIM card.
- ▷ Operating smartphone apps, e.g., Apple CarPlay or Android Auto.

## General information

Detailed information on the functions and connection modes is provided in the following media from the Owner's Manual under the specified keyword:

- ▷ Integrated Owner's Manual in the vehicle.
- ▷ Printed Owner's Manual for navigation, communication and entertainment.

The following information sources can also be used:

- ▷ Driver's Guide app.
- ▷ Driver's Guide Web.

## Safety information

### **WARNING**

Operating the integrated information systems and communication devices while driving can distract from surrounding traffic. It is possible to lose control of the vehicle. There is a risk of accident, injury, and property damage. Only use the systems or devices when the traffic situation allows. As warranted, stop and use the systems and devices while the vehicle is stationary.

# BMW Remote Software Upgrade

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## BMW Remote Software Upgrade

### Principle

Remote Software Upgrade can be used to update the entire software of the vehicle. This makes new functions, functional enhancements or quality improvements available.

### General information

BMW recommends performing the Remote Software Upgrade as soon as it becomes available.

### Safety information

#### WARNING

Unattended children or animals in the vehicle can cause the vehicle to move and endanger themselves and traffic, for example, due to the following actions:

- ▷ Establishing standby.
- ▷ Releasing the parking brake.
- ▷ Opening and closing the doors or windows.
- ▷ Engaging selector lever position N.
- ▷ Using vehicle equipment.

There is a risk of accident, injury, and property damage. Do not leave children or animals unattended in the vehicle. Take the vehicle key with you when exiting and lock the vehicle.

### Functional requirements

To install a Remote Software Upgrade, the following requirements must be met:

- ▷ Active ConnectedDrive contract.
- ▷ The integrated SIM card in the vehicle has been activated.
- ▷ Cellular network reception.
- ▷ Consent to transmit the corresponding data was given in the Data Protection menu.

Additional information:

Data protection, refer to page 68.

### Search for an upgrade

#### Functional requirement

Standby must be turned on to search for a Remote Software Upgrade.

#### Automatic search

The vehicle regularly searches for updates in the background.

#### Manual search

1.  Apps menu
2. "All apps"
3. "System settings"
4. "Remote Software Upgrade"
5. "Search for upgrades"
6. Follow the instructions on the control display.



## Download of an upgrade

### Automatic download

If available, the data for a Remote Software Upgrade is automatically downloaded to the vehicle. No download consent is required.

### Via My BMW App

When an upgrade is available, the My BMW App will provide information on the new software version.

The data for the upgrade can then be downloaded to a mobile device, for instance via an existing Wi-Fi connection.

Data can then be sent from the mobile device to the vehicle.

This transmission method accelerates the download of the data, for instance in areas with limited mobile network availability.

You do not need to be present in the vehicle to download the data to a mobile device.

1. Download the upgrade using the My BMW App on your smartphone.
2. Follow the instructions in the My BMW App.
3. Connect your smartphone to the vehicle via Bluetooth audio and Wi-Fi.

Data for the upgrade is sent from the mobile device to the vehicle both while driving and when stopped. Depending on the size of the upgrade, it may be necessary to drive the vehicle to complete the data transfer.

4. Follow the instructions on the control display.

Additional information:

Connecting mobile devices to the vehicle, see Owner's Manual for Navigation, Entertainment, Communication.

## Information about the version

### General information

The information about the version contains a description of the updates included in the Remote Software Upgrade. During the download and after the installation has been successfully completed, the information about the version can be displayed on the control display.

The version history can also be viewed on the BMW website. To do so, log in to the personal area using the BMW ID.

### Displaying information

Display in the vehicle:

1.  Apps menu
2. "All apps"
3. "System settings"
4. "Remote Software Upgrade"
5.  Display currently installed version:  
"Installed version:"  
 Display new available version:  
"Info on version"
6. Follow the instructions on the control display.

More information is provided on the corresponding BMW website.

## Installing the upgrade

### General information

-  Installation of the Remote Software Upgrade may result in the deletion of software changes, e.g., performance increases not made by the manufacturer of the vehicle.
-  Modifications to the electrical system of the vehicle, for instance to control units, that have not been made by the vehicle manufacturer can lead to an interruption of the installation.



- ▶ The installation does not occur until the consent was given.
- ▶ The installation may take approx. 20 to 30 minutes.
- ▶ The installation cannot be terminated.
- ▶ The vehicle cannot be used during the installation.
- ▶ The vehicle can be exited during the installation.
- ▶ Charging the vehicle is interrupted due to the installation.
- ▶ Following the successful installation, charging the vehicle may not continue automatically.

### Prerequisites for the installation

To install an upgrade, the following functional requirements must be met:

- ▶ Sufficiently charged battery.
- ▶ The outside temperature is above 14°F/-10°C.
- ▶ The vehicle is parked in a horizontal position.
- ▶ The hazard warning system is turned off.
- ▶ The selector lever position P is engaged.
- ▶ The engine is turned off and sufficiently cooled down.

If applicable, follow the notes for further prerequisites on the control display.

Your vehicle can establish some prerequisites automatically. Follow the instructions on the control display.

If the prerequisites are not met such as a sufficiently charged battery, the upgrade will not be offered for installation.

Pay attention to an offer for installation, e.g., after charging the battery for a longer period of time.

### Preparing the vehicle

- ▶ Park the vehicle safely away from the public road.
- ▶ Cellular network reception must be ensured so that a fault message can be sent to the vehicle manufacturer, for instance if the installation is terminated.
- ▶ Close the windows.
- ▶ Close the glass sunroof.
- ▶ Close the cargo area.
- ▶ Remove energy consuming devices such as a mobile phone.
- ▶ The vehicle key must be located in the vehicle for the consent for installation.
- ▶ Switch off the exterior lighting.
- ▶ Remove devices connected to the diagnostic socket.

### Installing immediately

The upgrade can be installed immediately if all prerequisites have been met.

1. ■■ Apps menu
2. "All apps"
3. "System settings"
4. "Remote Software Upgrade"
5. "Start upgrade now"
6. Follow the instructions on the control display.

### Installing with timer

When the trip is completed, a timer can be used to install the upgrade automatically at a configured time such as during the night. It may also be helpful to install the upgrade at a later time so that all functional requirements are met, e.g., to allow the engine to cool sufficiently or the vehicle battery to charge sufficiently.

1. ■■ Apps menu
2. "All apps"

3. "System settings"
4. "Remote Software Upgrade"
5. Select the desired settings.

The installation starts automatically when:

- ▶ All prerequisites for the installation have been established correctly.
- ▶ All prerequisites continue to be met at the time of installation.

The timer is turned off when the drive-ready state is turned on.

### Installing via the My BMW App

Once all preparations are complete and all requirements are met, the upgrade installation can also be started using the My BMW App when the vehicle is parked. The upgrade installation can be started remotely.

Follow instructions in the My BMW App.

### Functional limitations

During the upgrade, the majority of functions is temporarily unavailable, for instance:

- ▶ Hazard warning system.
- ▶ Central locking system and, if necessary, Comfort Access.
- ▶ Parking lights.
- ▶ Horn.
- ▶ Alarm system.
- ▶ Emergency call.
- ▶ Power windows.
- ▶ Glass sunroof.
- ▶ Checking the fuel filler flap lock.
- ▶ Operate the tailgate or trunk lid.
- ▶ Lock the charging flap.
- ▶ Exit Warning if needed.

In vehicles with frameless doors, the window may no longer close completely.

The driver's door can be locked and unlocked from the outside using the integrated key.

### After successful upgrade

The vehicle can be used again immediately.

Booked services such as Advanced Real Time Traffic Information or Remote Services are automatically reactivated during the next trip.

After a longer stationary period, recharge the vehicle battery with the charging cable as necessary.

### Malfunction

In the event of a malfunction, follow the instructions on the control display or in the My BMW App.

If the malfunction cannot be corrected, contact an authorized service center or another qualified service center or repair shop.

### Validity of the Owner's Manual

#### Production of the vehicle

At the time of production at the plant, the printed Owner's Manual is the most current resource.

#### After a software update in the vehicle

After a vehicle software update such as via Remote Software Upgrade the Integrated Owner's Manual for the vehicle will contain the latest information.

#### Printable Owner's Manual

When a Remote Software Upgrade is offered in the vehicle, the contents of the BMW Driver's Guide app and the BMW Driver's Guide website are also updated.

In addition, a printable version of the Owner's Manual can be downloaded, which reflects the production status of the vehicle.



# Personal settings

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page [8](#).

## Data protection

### Data transfer

#### Principle

The vehicle offers different services, whose use requires a data transfer to BMW or a service provider.

#### General information

The data transfer can be deactivated for some services. When the data transfer is deactivated, the respective service cannot be used.

#### Settings

The data transfer can be configured in different stages or individually for separate services.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Data privacy"
5. Select the desired setting.

## Deleting personal data in the vehicle

#### Principle

Depending on the usage, the vehicle stores personal data such as stored radio stations.

This personal data can be permanently deleted using iDrive.

#### General information

Depending on the equipment, the following data is deleted:

- ▷ BMW IDs or driver profiles.
- ▷ Stored radio stations.
- ▷ Stored shortcuts.
- ▷ Navigation, for instance stored destinations.
- ▷ Phone book.
- ▷ Online data, e.g., favorites, cookies.
- ▷ Office data, for instance voice memos.
- ▷ Login accounts.
- ▷ Digital key.

Altogether, the deletion of the data can take up to 15 minutes. In addition, the vehicle is removed from the My BMW App and ConnectedDrive customer portal so that remote functions can no longer be used.

#### Functional requirements

- ▷ Data can only be deleted while stationary.
- ▷ The vehicle key must be in the vehicle.

#### Deleting data

The personal data in the vehicle will be deleted when the vehicle is reset to the factory settings.

Additional information:

Resetting vehicle data, refer to page [68](#).

## Reset vehicle data

All individual settings can be reset to the factory settings when the drive-ready state is

switched off. Data can only be deleted while the vehicle is stationary. The vehicle key must be in the vehicle.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Reset vehicle data"
5. "Reset vehicle data"

If setting synchronization has been activated for a BMW ID in the vehicle, personal settings are kept in the BMW Cloud.

## BMW ID/driver profiles

### Principle

In ConnectedDrive countries, the BMW ID is the personal login for all relevant offers for the BMW brand. The BMW ID can be used in the vehicle to store and activate personal vehicle settings.

In non-ConnectedDrive countries, the personal vehicle settings can be stored in driver profiles.

If a vehicle is used by several people, each person can use their own BMW ID in the vehicle. If a BMW ID is activated, the settings stored for it are applied to the vehicle.

### General information

The BMW ID must be registered once. Registration of a BMW ID can be completed on the My BMW App, in the ConnectedDrive portal, or at an authorized service center or another qualified service center or repair shop.

A driver profile is created in the vehicle.

Many of the settings that are stored for a BMW ID in the vehicle can be synchronized with the BMW Cloud. This makes these settings available in any vehicle where the same BMW ID is used to log in.

The vehicle can store seven BMW IDs or seven driver profiles.

With driver recognition, a BMW ID or driver profile can be activated as soon as you unlock your vehicle. For this, a vehicle key or digital key must be linked with the BMW ID or driver profile. After unlocking, you can change the BMW ID or driver profile.

If no BMW ID or driver profile is activated when the vehicle is unlocked, the vehicle loads the guest profile.

### Functional requirements

The vehicle must be stationary to create, change, delete, or edit a BMW ID.

Logging in the vehicle with a BMW ID and synchronization with the BMW Cloud are only possible when the vehicle has cellular network reception.

### Welcome window

After unlocking the vehicle, a Welcome window is shown on the control display. The type of the welcome depends on the following prerequisites:

- ▶ The vehicle does not have a stored BMW ID or driver profile:  
The welcome is neutral. An option to add a BMW ID or create a driver profile is offered.
- ▶ The vehicle key or the digital key has not been assigned to a BMW ID or a driver profile:  
The welcome is neutral. The stored BMW IDs or the stored driver profiles are offered for selection. Additionally, it is possible to add a new BMW ID or create a new driver profile.
- ▶ A BMW ID or driver profile has been assigned to the vehicle key or digital key:  
The welcome is personalized, the stored settings are activated. The BMW ID or the driver profile can be changed.

As soon as the drive-ready state is turned on or the control display is tapped outside of the Welcome window, the welcome will be hidden.



## Adding the BMW ID

1.  Tap the BMW ID icon or personal picture on the status bar.
2. "Add BMW ID"
3. Scan the displayed QR code with your smartphone.
4. Observe the instructions on your smartphone.
  - ▶ If you have installed the My BMW App on your smartphone and saved your BMW ID, the BMW ID is automatically transferred to the vehicle.
  - ▶ If there is currently no BMW ID, a new BMW ID can be registered.
5. Change additional settings as necessary, e.g., desired driver recognition.

To configure driver recognition, the corresponding vehicle key or digital key must be located in the vehicle.

Driver recognition can be set or changed in the settings at a later time.

6. Change any additional settings as necessary.

Alternatively, the BMW ID can be registered and added to the vehicle by an authorized service center or another qualified service center or repair shop. The BMW ID must then be confirmed on the control display in the corresponding vehicle.

The vehicle is added to the user's My BMW App.

## Confirming a BMW ID

If the BMW ID was created and added to the vehicle by an authorized service center or another qualified service center or repair shop,

the BMW ID must then be confirmed in the vehicle:

1. Select the BMW ID.
2. Scan the QR code shown.
3. Follow the instructions on your smartphone.

It may be necessary to register the BMW ID again.

 This icon is displayed on the status bar and indicates when it is necessary to login again.

1. Select the BMW ID.
2. Scan the QR code shown.

Another registration will be attempted. Once successfully logged in, all functions can be used again.

## My BMW app

If a BMW ID has been added to a vehicle, the vehicle is automatically added to the My BMW app. The My BMW App provides numerous beneficial functions and settings, e.g., user management.

Alternatively, a vehicle can be added to the My BMW App by an authorized service center or another qualified service center or repair shop. In this case, the BMW ID must then be confirmed on the control display in the corresponding vehicle.

In rare cases, the use of My BMW App functions for this vehicle may be limited. More information is shown on the control display.

## Creating a driver profile

In countries where BMW ConnectedDrive is not available, driver profiles can be created.

1.  Tap the icon or personal picture on the status bar.
2. "Add driver profile"
3. Enter the name for the driver profile.
4. Select the desired setting:

### "Transfer settings"

If the vehicle is in the guest profile, the settings of the guest profile will be applied.

## Primary user

The primary user is the person who first adds their BMW ID to the vehicle and first adds the vehicle to the My BMW app. Alternatively, the primary user can be specified by an authorized service center or another qualified service center or repair shop.

The primary user has access to the following settings, for example:

- ▶ Removing BMW IDs saved to the vehicle.
- ▶ Transferring the primary user role to another BMW ID.
- ▶ Changing vehicle-wide data protection settings.
- ▶ Creating the main digital key.

Additional information:

BMW Digital Key, refer to page 79.

## Automatic driver recognition

If driver recognition has been established, automatic activation of the BMW ID or driver profile is triggered by the following actions:

- ▶ By unlocking the vehicle using the button on the assigned vehicle key.
- ▶ By unlocking the vehicle with a door handle. The assigned vehicle key or the assigned digital key must be carried with you.
- ▶ By automatic unlocking when approaching the vehicle. The assigned vehicle key or the assigned digital key must be carried with you. Depending on the country, it may not be possible to recognize the digital key.

If multiple vehicle keys or digital keys are located near the vehicle, the BMW ID or driver profile is activated according to the following priority:

- ▶ The key that triggers the door locks to release also activates the associated BMW ID or driver profile.

The guest profile is activated when the vehicle is unlocked using a key that is not assigned to a BMW ID or driver profile.

- ▶ If a vehicle key and a digital key are detected at the same time, the digital key triggers the activation of the assigned BMW ID or the assigned driver profile.
- ▶ If another key is detected on the driver's door after activating the BMW ID or the driver profile, the BMW ID or the driver profile of the last key detected is activated.

If no BMW ID and no driver profile are assigned to this key, the guest profile is activated.

## Setting synchronization

If synchronization is enabled, settings from the following areas, for example, are continuously synchronized:

- ▶ BMW ID, e.g., profile picture.
- ▶ Navigation, e.g., recent destinations, home address, or map settings.
- ▶ iDrive, e.g., main menu configuration, language, or units.
- ▶ Personal Assistant, e.g., suggestions or activation word.
- ▶ Exterior lighting, e.g., one-touch signaling and home lights.

Settings from the following areas are only synchronized when you log in for the first time:

- ▶ Seating and climate comfort, e.g., driver's seat position or temperature setting.
- ▶ Data protection menu.

## Selecting the BMW ID/driver profile

If the BMW ID or driver profile could not be recognized when unlocking the vehicle, select the BMW ID or driver profile on the welcome window.



The BMW ID or driver profile can be changed at any time via iDrive:

1. Tap the icon or personal picture on the status bar.
2. "Change BMW ID"  
 "Change driver profile"
3. Select the BMW ID or driver profile.
4. If necessary, enter the PIN.

The BMW ID or the driver profile are activated, the stored settings are loaded.

## Guest profile

The guest profile can be activated and changed by anyone.

In the following cases the guest profile is automatically active:

- ▶ The BMW ID has not yet been added or a driver profile has not yet been created.
- ▶ No BMW ID or driver profile has been assigned to the vehicle key or the digital key that was used to unlock the vehicle.

The following limitations apply to the guest profile:

- ▶ Certain functions are not available, e.g., individual navigation functions or saving favorites.
- ▶ The guest profile cannot be renamed.
- ▶ It is not possible to assign a PIN to the guest profile.
- ▶ It is not possible to assign driver detection to the guest profile.
- ▶ In ConnectedDrive countries, the synchronization with the BMW Cloud is not possible.

The guest profile is selected on the Welcome screen or via iDrive:

1. Tap the icon or personal picture on the status bar.
2. "Change BMW ID"  
 "Change driver profile"
3. "Continue as guest"

## Deleting the BMW ID/driver profile

1. Tap the icon or personal picture on the status bar.
2. "Manage BMW IDs"  
 "Change driver profile"
3. Tap the icon for the desired BMW ID or driver profile.

Removing a BMW ID from the vehicle causes the vehicle to be removed from the My BMW App. If the BMW ID has been synchronized with the BMW Cloud, the data stored in the BMW Cloud is retained after the BMW ID is deleted. If the currently active BMW ID is removed, the guest profile is activated.

Removing a vehicle from the My BMW App removes the corresponding BMW ID from the vehicle. If the BMW ID was synchronized with the BMW Cloud, the BMW ID data stored in the BMW Cloud will be retained.

If the vehicle is removed from the primary user's My BMW App, it will also be removed from the My BMW App of the other users. The corresponding BMW IDs are removed from the vehicle.

If the vehicle is reset to factory settings, it is removed from each user's My BMW App, and all BMW IDs are removed from the vehicle.

## Transfer of the vehicle key

A vehicle key that is assigned to a BMW ID or a driver profile can be used to view or change the stored personal settings.

Before giving a vehicle key to another person, remove the associated driver detection as necessary. Changes to the driver detection can be made in the settings of the BMW ID or the driver profile.

The BMW Digital Key provides the option to transfer a digital key to permit other persons the use of your own vehicle.

Additional information:

BMW Digital Key, refer to page 79.



## Settings

### General information

Settings added when adding a BMW ID or creating a driver profile can be changed.

1.  Tap the icon or personal picture on the status bar.
2. "Settings"

The following settings are available for the BMW ID:

- ▶ The type of driver detection.
- ▶ The profile picture.
- ▶ Synchronization with the BMW Cloud.
- ▶ The personal salutation.

The following settings are available for the driver profile:

- ▶ The type of driver detection.
- ▶ The profile picture.
- ▶ The profile name.

### Selecting a profile picture

The profile picture can be selected from the predefined profile pictures:

1.  Tap the icon or personal picture on the status bar.
2. "Settings"
3. "Manage profile picture"
4. "Select profile picture"

The profile picture from the My BMW App profile can be used for BMW IDs. Synchronization with the BMW Cloud must be enabled in the settings in order to use the profile picture from the My BMW App. The default pictures can only be selected after deleting the profile picture on the My BMW App or disabling synchronization.

## System limits

A clear driver detection via the vehicle key or the digital key may not always be possible in the following cases, for example:

- ▶ The driver changes, but the vehicle is not locked and unlocked.
- ▶ If multiple vehicle keys or multiple digital keys linked to a BMW ID or driver profile are located outside the vehicle on the driver's side.
- ▶ When the vehicle was unlocked via the My BMW App.

There are technical limitations to using the settings for a BMW ID in other vehicles. For example, settings may be stored for a system that is not available, or available in a non-compatible version, in other vehicles.

# Opening and closing

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page [8](#).

## Vehicle key

### General information

The vehicle comes with one or two vehicle keys depending on the country and vehicle equipment.

BMW Digital Key come with a vehicle key.

Vehicle keys contain a replaceable battery as well as an integrated key.

A BMW ID or a driver profile with personal settings can be assigned to a vehicle key.

Depending on the equipment and national-market version, various settings are possible for the button functions. To change the button settings, a BMW ID or driver profile must be assigned to the corresponding vehicle key.

To provide information on maintenance recommendations, the service data is stored in the vehicle key.

To prevent possible locking in of the vehicle key, take the vehicle key with you when exiting the vehicle.

## Safety information

### WARNING

The vehicle key has a button cell battery. Batteries or button cell batteries can be swallowed and lead to serious or fatal injuries within two hours, for example due to internal burns or chemical burns. There is a risk of injury and danger to life. Keep the vehicle key and batteries out of reach of children. Immediately seek medical help if there is any suspicion that a battery or button cell battery has been swallowed or is located in any part of the body.

## Overview



Buttons on the vehicle key.

| Icon                                                                                | Meaning                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  | Unlock.                                                                                                                               |
|  | Lock.<br>Pre-conditioning, refer to page <a href="#">293</a> .<br>Displaying the charging screen, refer to page <a href="#">152</a> . |

| Icon                                                                             | Meaning                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------|
|  | Open the cargo area.                                |
|  | Panic mode.<br>Pathway lighting, refer to page 166. |



## Additional vehicle keys

Additional vehicle keys are available from an authorized service center or another qualified service center or repair shop.

## Loss of vehicle keys

A lost vehicle key can be disabled and replaced by an authorized service center or another qualified service center or repair shop.

If the lost vehicle key has an assigned BMW ID or driver profile, the connection to this vehicle key must be deleted. A new vehicle key can then be assigned to the BMW ID or driver profile.

## Replacing the battery

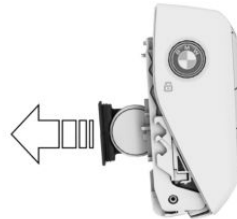
### NOTICE

Improper batteries in a battery-operated device can damage the device. There is a risk of property damage. Always replace the discharged battery with a battery with the same voltage, the same size and the same specification.

1. Press and hold the button, arrow 1, and push the cover, arrow 2, forward and remove it from the side.



2. Remove the battery housing from the vehicle key to the side.



3. Remove the battery from the battery housing.



4. Insert a CR2032 3V battery with the positive side facing down.



5. Insert the battery housing into the vehicle key.



6. Insert the cover into the vehicle key.



Have old batteries disposed of by an authorized service center or another qualified service center or repair shop, or take them to a collection point.



Batteries contain harmful chemicals. Disposing of batteries with household waste is prohibited by law.

## Integrated key

### General information

The vehicle can be locked and unlocked manually using the integrated key.

Depending on the national-market version, the integrated key will fit in the glove compartment.

### Safety information

#### **WARNING**

There is a risk of injury and danger to life if people or animals remain in the vehicle for a long period of time and are exposed to extreme temperatures. Do not lock the vehicle from the outside when there are people or animals in it. Do not leave babies, toddlers or animals alone in the vehicle.

## Removing the integrated key

1. Press and hold the button, arrow 1, and push the cover, arrow 2, forward and remove it from the side.



2. Slide out the integrated key at the open side of the vehicle key.



3. Remove the integrated key from the vehicle key.

## Unlocking the vehicle manually

1. Pull and hold the driver's door handle outward with one hand.



2. The position of the integrated key in the door lock depends on the vehicle.

Unlock the door lock with the integrated key by turning it counterclockwise.



3. Pull out the vehicle key and release the door handle.
4. Open the driver's door.
5. Press the central locking button to unlock the other doors.

With the vehicle de-energized: Pull the door opener of the other doors from the inside.

## Locking the vehicle manually

### General information

To avoid locking the vehicle key in the vehicle, do not place the vehicle key in the vehicle.

### Overview



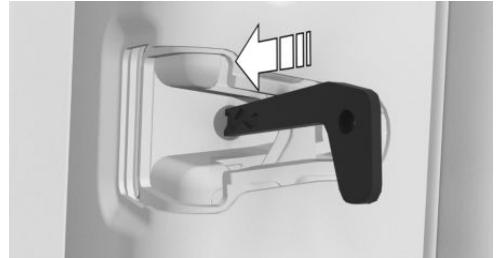
Side door lock for manually locking the doors.

### Locking the vehicle

1. Close all doors.
2. Enter the vehicle on the front passenger's side and close the front passenger door.

3. Press the central locking button to unlock all doors.
4. Exit the vehicle through the front passenger door.
5. The position of the side key in the door lock depends on the vehicle.

With the integrated key, close and lock the front passenger door using the side door lock.



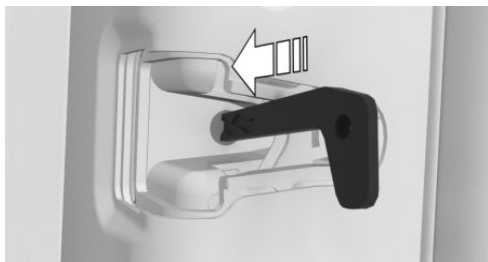
6. Pull the door handles to make sure they are locked. If necessary, repeat the process.

If vehicle is de-energized:

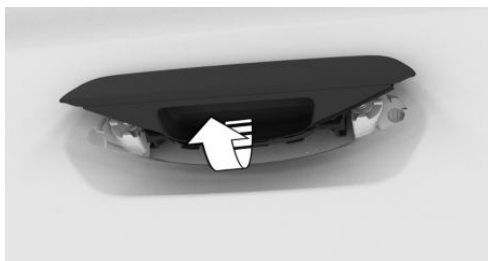
1. The position of the side key in the door lock depends on the vehicle.



With the integrated key, close and lock all doors, except the driver's door, using the side door lock.



2. Pull and hold the driver's door handle outward with one hand.



3. The position of the integrated key in the door lock depends on the vehicle.  
Lock the door lock using the integrated key, turning it clockwise. Turn the key approx. 50°, beyond the resistance point, to the stop.



4. Pull out the vehicle key and release the door handle.
5. Close the driver's door.
6. Pull the door handles to make sure they are locked. If necessary, repeat the process.

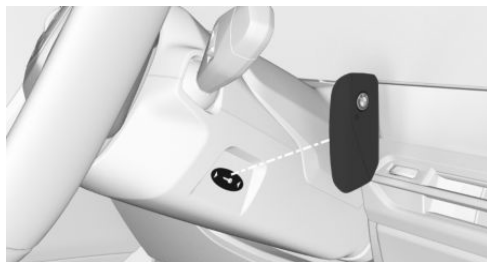
## Alarm system

If the vehicle is unlocked with the integrated key via the door lock, the activated alarm system will be triggered when the door is opened.

In this case, use the vehicle key emergency detection to switch off the alarm.

If the doors are manually locked from the inside, the alarm system is not activated.

## Emergency detection of the vehicle key



It is not possible to switch on the drive-ready state if the vehicle key has not been detected.

Proceed as follows in this case:

1. To turn on the drive-ready state via emergency detection of the vehicle key, hold the back of the vehicle key to the marking on the steering column. Pay attention to the display in the instrument cluster.
2. ▶ If the vehicle key is detected:  
Turn on the drive-ready state within 10 seconds.
- ▶ If the vehicle key is not detected:  
Slightly change the position of the vehicle key and repeat the procedure.

## Malfunction

A Check Control message is displayed where applicable.

Vehicle key detection by the vehicle may malfunction under the following circumstances:

- ▶ The battery of the vehicle key is discharged.
- ▶ Fault of the radio link from transmission towers or other equipment with high transmitting power.
- ▶ Shielding of the vehicle key due to metal objects.  
Do not transport the vehicle key together with metal objects.
- ▶ Fault of the radio link from mobile phones or other electronic devices in direct proximity to the vehicle key.  
Do not carry the vehicle key in close proximity to other electronic devices.
- ▶ Wireless transmission interrupted by mobile device charging process, e.g., charging a mobile phone.
- ▶ The vehicle key is located in direct proximity of the wireless charging tray.  
Place the vehicle key in a different location.
- ▶ Fault of the radio link while charging the vehicle.

In the case of interference, the vehicle can also be unlocked and locked from the outside with the integrated key. Use the emergency detection of the vehicle key to turn on the drive-ready state.

## BMW Digital Key

### Principle

BMW Digital Key makes it possible to unlock, lock, and start the vehicle using digital keys.

BMW Digital Key can be used with a compatible smartphone or another compatible device.

To unlock and start a vehicle with a compatible smartphone, this function must be offered by the smartphone manufacturer. The My BMW app can be used to check if the smartphone and vehicle are compatible and which functions are supported.

Each vehicle can be provided with a main digital key. Additional digital keys can be shared and then deleted.

### General information

BMW Digital Key availability and range of functions depend on vehicle equipment and national-market version.

The Setup Card and Service Card are part of the BMW Digital Key.

The Setup Card is used to set up the main digital key. As with the Service Card, the vehicle can be unlocked/locked in an emergency using the Setup Card. The Setup Card cannot be used to turn on drive-ready state. For safety/security reasons, the Setup Card should be stored outside of the vehicle and should only be inside of the vehicle to set up and activate the main digital key.

A BMW ID or a driver profile with individual settings can be assigned to a digital key.

When using a smartphone as a digital key, the deactivated Service Card should be located in the vehicle.

The Service Card can be given to other people in situations that require the vehicle to be handed over to another person or to an authorized service center. The Service Card must be activated before it can be handed over.

Additional information:

- ▶ BMW ID/driver profiles, refer to page 69.
- ▶ Service Card, refer to page 82.

The respective BMW website provides additional information under the keyword BMW Digital Key.

### Functional requirements

The following functional requirements must be met for BMW Digital Key:



- ▶ The smartphone is compatible with BMW Digital Key.
- ▶ The vehicle is linked with the Connected-Drive account of the vehicle owner.
- ▶ The smartphone's rechargeable battery has sufficient charge. The necessary minimum charge of the rechargeable battery depends on the smartphone.
- ▶ Bluetooth and ultra-wideband must be enabled on the smartphone in order to use hands-free unlocking/locking with the digital key.

## Enabling the main digital key with the Setup Card

Vehicle owner's smartphone is enabled as a main digital key in the vehicle. The vehicle owner must prove his authorization for the vehicle for this purpose.

The Setup Card is used to set up the main digital key. A vehicle key is also required to verify authorization. The Setup Card and the My BMW App are used to start the setup process for the main digital key. Hold the Setup Card to the smartphone or scan the QR code using the smartphone camera. Follow the instructions on the smartphone.

Complete the activation of the digital master key in the vehicle. To do so, follow the instructions on the smartphone and control display. A vehicle key must be located in the vehicle for activation.

## Sharing digital keys

### General information

BMW Digital Key makes it possible to share digital keys with other people. This is possible using the vehicle owner's smartphone or a smartphone with the corresponding authorization. This function must be supported by the smartphone.

## Forwarding authorization

To share the digital key, select the corresponding function on the smartphone, for instance in the Wallet app.

As soon as a digital key is shared with another person, the person will receive an invitation. When the invitation is accepted, the digital key on the recipient's smartphone will be activated.

## Authentication

Depending on the recipient's smartphone model, an authentication may be required for security and safety reasons.

A vehicle key, a digital key with corresponding authorization, or another method can be used for authentication. Follow the corresponding instructions on the smartphone or the control display.

## Deleting digital keys

### General information

Deleted digital keys will be removed from the list of enabled digital keys.

Deleted digital keys cannot be restored.

### Deleting the main digital key

The main digital key can be deleted using a smartphone or via iDrive.

The main digital key is deleted immediately.

Any other digital keys remain active.

### Deleting a shared key

Shared keys can be deleted using a smartphone with the corresponding authorization, using the smartphone with a shared key, or via iDrive.

A key can only be deleted via smartphone with corresponding authorization once the vehicle is used with a key other than the key to be deleted.



If the smartphone associated with a shared key or iDrive is used to delete a shared key, it will be deleted immediately.

### Deletion via iDrive

To delete a digital key via iDrive, a vehicle key must be in the vehicle.

1.  Apps menu
2. "Vehicle"
3. "Keys"
4. "Digital Key"
5. If necessary, select the digital key.
6. Delete the digital key.

### Resetting the function

To reset the BMW Digital Key function, a vehicle key must be located in the vehicle.

When resetting the BMW Digital Key function, all digital keys including the main digital key will be deleted.

After the reset, the vehicle can no longer be unlocked, locked or started with a digital key.

The Service Card's digital key will continue to work.

1.  Apps menu
2. "Vehicle"
3. "Keys"
4. "Digital Key"
5. "Reset function"

The main digital key must be enabled again to be able to use BMW Digital Key again.

### Unlocking and locking the vehicle

The vehicle can be unlocked and locked as follows:

- Using the door handle.
- With Comfort Access: Depending on the national-market version, the vehicle can be locked and unlocked with no-touch activation.

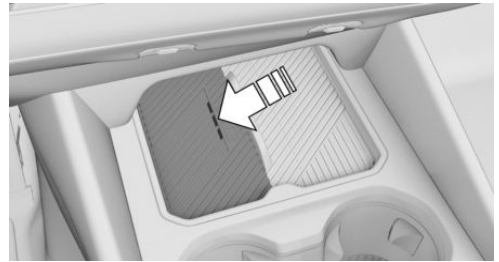
BMW Digital Key availability and range of functions depend on vehicle equipment and national-market version.

Additional information:

Access to the vehicle interior, refer to page 83.

### Turning on drive-ready state with the BMW Digital Key

#### Using the smartphone tray



1. Place the smartphone in the middle of the smartphone tray.  
Ensure that the display is facing up.
2. Press the Start/Stop button to turn on the drive-ready state.

### Inside the vehicle

With Comfort Access, it is sufficient, depending on the country, for the smartphone with Bluetooth and ultra-wideband enabled to be located inside the vehicle. Press the Start/Stop button to turn on the drive-ready state.

### Sale of the smartphone

Delete all digital keys on the smartphone prior to selling the smartphone. This ensures that the smartphone can no longer be used for the vehicle.

### Changing smartphones

To use a new smartphone as a master Digital Key, activate the new smartphone according to the instructions for the master Digital Key. The



previous main key can be deleted when the new smartphone is activated.

## Sale of the vehicle

Before selling a vehicle, reset the BMW Digital Key function or remove the vehicle from the ConnectedDrive account of the current vehicle owner.

When the vehicle is removed from the ConnectedDrive account, all digital keys for the vehicle will be deleted. The Service Card's digital key is retained and deactivated.

## System limits

If the smartphone turns off due to low battery charge, this smartphone can still be used, for a few hours, to unlock/lock the vehicle at the door handle and turn on the drive-ready state.

## Malfunction

Digital key recognition by the vehicle may malfunction under the following circumstances:

- ▶ The smartphone is shielded from the sensors in the vehicle by a smartphone cover that is not suitable.
- ▶ There is an object, e.g., a chip card, between the smartphone and smartphone case.
- ▶ Fault of the connection from transmission towers or other equipment with high transmitting power.
- ▶ Shielding of the smartphone due to build-ups or metal objects.
- ▶ Some smartphones offer the option to protect the digital key with additional authentication. If using the digital key, the user must authenticate themselves, e.g., via PIN, fingerprint, or facial recognition.

If the recognition system is not functional, the digital key can no longer be used. If neither the vehicle key nor the Service Card is available, the vehicle can be locked/unlocked using Remote Services in the My

BMW App on another smartphone. Alternatively, the vehicle can be unlocked by the BMW ConnectedDrive call center upon request.

## BMW Digital Key Service Card

### Principle

The Service Card is part of the BMW Digital Key. A digital key that has already been paired with the vehicle is stored on the Service Card. The Service Card allows the vehicle to be unlocked/locked and started. When using a smartphone as a digital key, the deactivated Service Card must be located in the vehicle. The Service Card can be given to other people in situations that require the vehicle to be handed over to another person. The key is handed over with the Service Card for service appointments and when only the digital key is used. The Service Card must be activated before it can be handed over.

### General information

Service Card availability depends on vehicle equipment and national-market version.

### Safety information



#### NOTICE

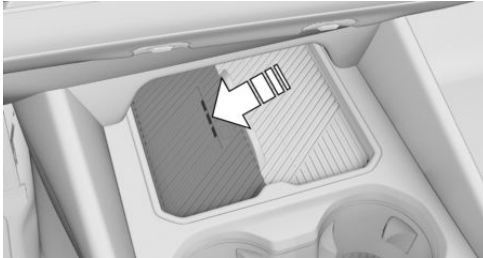
If the Service Card and a mobile device are in the Wireless Charging tray at the same time, the Service Card may become damaged. There is a risk of property damage. Do not place the Service Card in the Wireless Charging tray at the same time as a mobile device.

## Activating/deactivating the Service Card in the vehicle

### Functional requirement

A vehicle key or digital key must be located in the vehicle to activate and deactivate the Service Card.

### Activating the Service Card



1. Place the Service Card in the middle of the smartphone tray.
2. Follow the instructions on the control display.

### Deactivating the Service Card

1.  Apps menu
2. "Vehicle"
3. "Keys"
4. "Digital Key"
5. Select the Service Card option.
6. "Deactivate Service Card"

A deactivated Service Card will remain on the list of paired digital keys.

If using a digital key or vehicle key while an activated Service Card is detected, the control display will show an additional message to deactivate the Service Card.

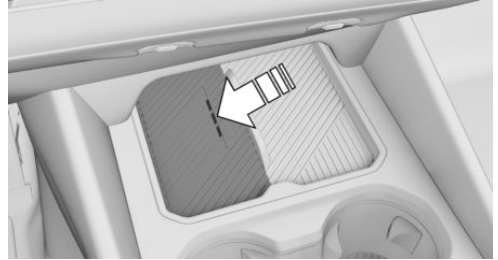
### Unlocking and locking the vehicle

The vehicle can be unlocked and locked with the activated Service Card.

Additional information:

Access to the vehicle interior, refer to page 83.

### Turning on drive-ready state with the Service Card



1. Place the activated Service Card in the middle of the smartphone tray.
2. Press the Start/Stop button.

Once drive-ready state is on, the Service Card can be removed from the tray.

### Malfunction

The vehicle may not be able to detect the Service Card if there are objects between the smartphone tray and the Service Card, e.g., a wallet or smartphone case.

## Access to vehicle interior

### Safety information

#### **WARNING**

People or animals in the vehicle can lock the doors from the inside and lock themselves in. In this case, the vehicle cannot be opened from the outside. There is a risk of injury and danger to life. Take the vehicle key with you so that the vehicle can be opened from the outside.

**WARNING**

There is a risk of injury and danger to life if people or animals remain in the vehicle for a long period of time and are exposed to extreme temperatures. Do not lock the vehicle from the outside when there are people or animals in it. Do not leave babies, toddlers or animals alone in the vehicle.

**WARNING**

Unattended children or animals in the vehicle can cause the vehicle to move and endanger themselves and traffic, for example, due to the following actions:

- ▷ Establishing standby.
- ▷ Releasing the parking brake.
- ▷ Opening and closing the doors or windows.
- ▷ Engaging selector lever position N.
- ▷ Using vehicle equipment.

There is a risk of accident, injury, and property damage. Do not leave children or animals unattended in the vehicle. Take the vehicle key with you when exiting and lock the vehicle.

## Actions during unlocking

Depending on the settings, the following functions are performed when unlocking the vehicle:

- ▷ Only the driver's door will be unlocked or all access to the vehicle will be unlocked.
- ▷ The unlocking of the vehicle can be confirmed with a light signal or a sound signal.
- ▷ The welcome light can be turned on when the vehicle is being unlocked.

In addition, the following functions are executed:

- ▷ If a BMW ID or a driver profile was assigned to the vehicle key, this BMW ID or driver profile will be activated.
- ▷ The interior lights are switched on, unless they were manually switched off.
- ▷ Depending on vehicle equipment, folded-in exterior mirrors are folded out.  
If the exterior mirrors were folded in using the button inside the vehicle, they will not fold out when the vehicle is unlocked.
- ▷ Anti-theft protection is switched off.
- ▷ The alarm system is switched off.

Additional information:

- ▷ Settings, refer to page 93.
- ▷ Welcome lights, refer to page 165.
- ▷ BMW ID/driver profiles, refer to page 69.

## Actions during locking

Depending on the settings, the following functions are performed when locking the vehicle:

- ▷ The locking of the vehicle can be confirmed with a light signal or a sound signal.
- ▷ Depending on vehicle equipment, the exterior mirrors can be folded in automatically when locking. The exterior mirrors are not folded in when the hazard warning system is turned on.

The following functions are executed:

- ▷ All doors and the cargo area are locked.
- ▷ Anti-theft protection is switched on. This prevents the doors from being unlocked using the lock buttons or the door openers.
- ▷ After locking from the outside, the indicator light on the interior mirror flashes every 2 seconds.
- ▷ The alarm system is switched on.

If the drive-ready state is still turned on when you lock the vehicle, the vehicle horn will honk twice. If the vehicle honks twice, turn off drive-ready state using the Start/Stop button.

If selector lever position N is engaged and drive-ready state is turned off, the vehicle horn will sound twice and the vehicle will not lock.

Additional information:

Settings, refer to page 93.

## With the vehicle key

### Unlocking the vehicle



Press the button on the vehicle key.

If only the driver's door has been unlocked due to the settings, press the button on the vehicle key again to unlock the other vehicle access points.

The lighting functions may depend on the ambient brightness.

### Locking the vehicle

1. Close the driver's door.



2. Press the button on the vehicle key.

All vehicle access points are locked.

## On the door handle

### Principle

The vehicle can be accessed without operating the vehicle key.

The vehicle key is automatically detected near the vehicle.

### General information

The function is available with Comfort Access. Depending on national-market version, the vehicle can also be unlocked and locked via the door handle using a compatible smartphone and digital key.

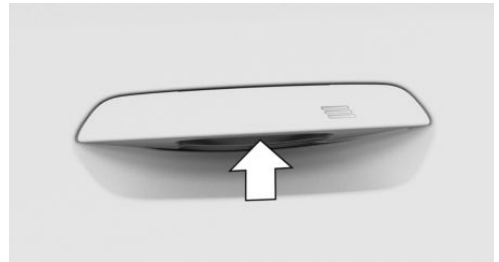
Additional information:

BMW Digital Key, refer to page 79.

## Functional requirements

- ▶ Carry the vehicle key with you, e.g., in your pants pocket.
- ▶ Bluetooth must be activated on the smartphone to unlock and lock using the digital key.
- ▶ To lock the vehicle, the vehicle key must be outside of the vehicle near the doors.
- ▶ After locking, approx. 2 seconds must elapse before unlocking is possible.

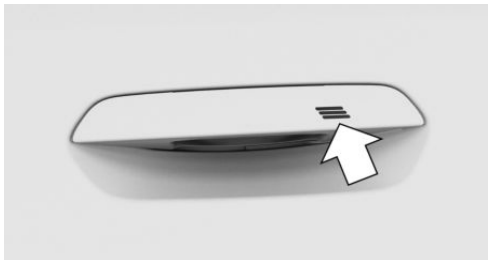
### Unlock vehicle



Reach into the recessed grip of a front door.

### Locking the vehicle

1. Close the driver's door.
2. Touch the grooved surface on the door handle of a closed front door with your finger for approx. 1 second without reaching into the recessed grip.



### Malfunction

Wet or snowy conditions may disrupt the locking request detection on the door handles.



In the case of a malfunction, unlock and lock the vehicle using the buttons of the vehicle key or use the integrated key.

## Touchless unlocking/locking of the vehicle

### Principle

When the driver approaches the locked vehicle with the vehicle key, the vehicle is unlocked.

When the driver walks away from the unlocked vehicle with the vehicle key, the vehicle will be locked.

### General information

The function is available with Comfort Access.

The vehicle will be unlocked when an authorized vehicle key is detected in the unlocking zone.

The unlocking zone is located within a radius of approx. 5 ft / 1.50 m around the side and rear of the vehicle.

The vehicle will be locked when the vehicle key leaves the locking zone.

The locking zone is located within a radius of approx. 9 ft / 3 m around the side and rear of the vehicle.

Depending on the national-market version, touchless unlocking and locking is also possible for compatible smartphones with a digital key. Enable Bluetooth on your smartphone to do so.

If the vehicle key is located in the unlocking zone for an extended period of time without movement, the vehicle will be locked automatically.

Depending on vehicle equipment, the following restrictions apply if someone is detected on a seat when the vehicle is locked:

- ▷ The vehicle will be locked but not secured against theft.
- ▷ The alarm system is not activated.
- ▷ The fuel filler flap remains unlocked.

Additional information:

BMW Digital Key, refer to page 79.

### Actions during unlocking

If the settings specify that only the driver's door will be unlocked, note the following:

The driver's door and the charging flap will only be unlocked when the driver is within the unlocking zone of the driver's door.

Additional information:

Settings, refer to page 93.

### Preventing unintentional unlocking

To prevent the vehicle from being unlocked unintentionally when approaching it, an address can be saved as the home address. The home address is saved to the assigned BMW ID or assigned driver profile.

Hands-free unlocking is disabled within a radius of approx. 164 ft / 50 m around a saved home address.

In the settings, disable hands-free unlocking for the home address.

Additional information:

Settings, refer to page 93.

BMW ID/driver profiles, refer to page 68.

### Functional requirements

- ▷ Carry the vehicle key with you, e.g., in your pants pocket.
- ▷ Bluetooth and ultra-wideband must be enabled on the smartphone in order to use hands-free unlocking/locking with the digital key.
- ▷ Automatic unlocking and locking must be activated in the settings.

- The drive-ready state must be turned off.
- If the vehicle has been in the idle state for several days, contactless unlocking/locking will only be available after the vehicle has been driven.

Additional information:

Settings, refer to page 93.

## With the Service Card

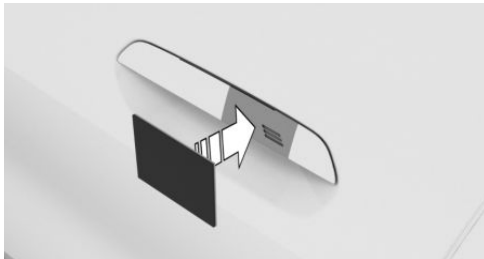
### Principle

The Service Card is a chip card on which the digital key is stored. The Service Card can be used to unlock and lock the vehicle.

Additional information:

Service Card, refer to page 82.

### Unlocking/locking the vehicle with the Service Card



Hold the activated Service Card directly over the middle of the driver's door handle.

When locking the vehicle with the Service Card, make sure that all doors and the cargo area are closed.

If the Service Card is not detected, change the position of the Service Card slightly and repeat the procedure.

## With the BMW Digital Key

### Principle

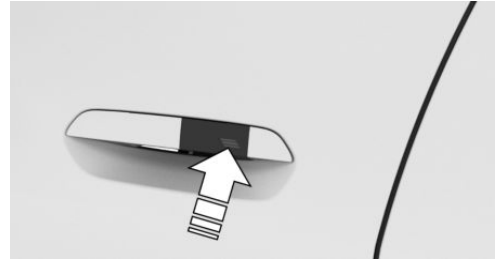
Depending on vehicle equipment and national-market version, a digital key can be installed

on a compatible smartphone and used to unlock and lock the vehicle.

Additional information:

BMW Digital Key, refer to page 79.

## Locking/unlocking the vehicle



Hold the smartphone NFC antenna directly at the center of the driver's door handle. The position of the near field communication antenna depends on the smartphone model.

When locking the vehicle with the smartphone, make sure that all doors and the cargo area are closed.

## With the My BMW App

The My BMW App Remote Services include options to unlock and lock a vehicle, among other functions.

This requires an active BMW ConnectedDrive contract, and the My BMW App must be installed on the smartphone used.

## Access to the cargo area

### General information

It may not be possible to open the cargo area when the vehicle is in valet parking mode.

Additional information:

Valet parking mode, refer to page 92.

## Safety information

### WARNING

Body parts can be jammed when operating the tailgate. There is a risk of injury. Make sure that the travel path of the tailgate is clear during opening and closing.

### WARNING

The tailgate swings back and up when it opens. There is a risk of injury and risk of property damage. Make sure that the travel path of the tailgate is clear during opening and closing.

## With the vehicle key

### General information

To avoid locking the vehicle key in the vehicle, do not place the vehicle key in the cargo area.

Depending on vehicle equipment and national-market version, the following settings can be changed:

- ▶ Unlocking the cargo area with the vehicle key also unlocks the doors.
- ▶ Before unlocking the cargo area with the vehicle key, first unlock the vehicle.

### Functional requirements

Selector lever position P must be engaged to open the cargo area with the vehicle key.

You must enable the setting for opening with the vehicle key.

Additional information:

Settings, refer to page 93.

## Opening the cargo area



Press and hold the button on the vehicle key for approx. 1 second.

## On the cargo area

### General information

With Comfort Access, the cargo area can be accessed without activating the vehicle key.

The key is detected automatically when near the vehicle rear.

Depending on the national-market version, compatible smartphones with a digital key are also detected automatically. In this case, the cargo area can be opened with a smartphone.

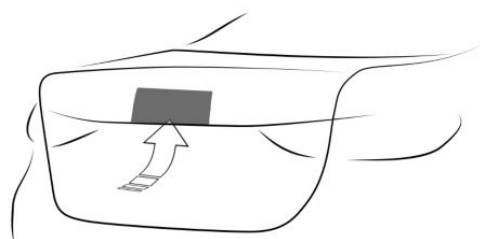
Additional information:

BMW Digital Key, refer to page 79.

### Functional prerequisites

- ▶ Carry the vehicle key with you, e.g., in your pants pocket.
- ▶ Bluetooth must be activated on the smartphone to detect the digital key.

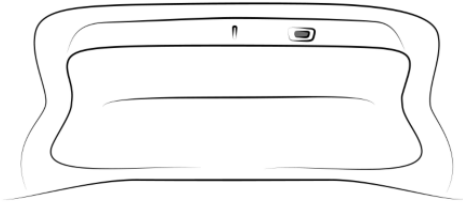
## Opening the cargo area



- ▶ Unlock the vehicle and then press the button on the cargo area.
- ▶ With Comfort Access: Carry the vehicle key with you and press the button on the cargo area.  
Locked doors are not unlocked.



## Closing the cargo area



- ▶  Press the button on the cargo area.
- ▶  Press the button on the cargo area. The vehicle is locked after closing the cargo area. To do so, the driver's door must be closed and the vehicle key must be outside of the vehicle near the cargo area.
- ▶ Pull the tailgate down slightly. The tailgate closes automatically.

## Inside the vehicle

### Functional requirements

The vehicle key or digital key must be located within the vehicle in order to close the cargo area using the button inside the vehicle.

### Opening the cargo area



Press the button in the driver's door.

### Closing the cargo area



Pull and hold the button in the driver's door.

An acoustic signal sounds before the cargo area is closed.

## Interruption of the opening procedure

The opening procedure is interrupted in the following situations:

- ▶ When the vehicle starts moving.
- ▶ By pressing the button on the outside of the cargo area. Pressing it again closes the cargo area again.
- ▶ By pressing the button on the inside of the cargo area. Pressing it again closes the cargo area again.
- ▶ By pressing the button on the vehicle key. Pressing the button again continues the opening process.
- ▶ By pressing or pulling the button in the driver's door. Pressing again continues the opening procedure.

## Interruption of the closing procedure

The closing procedure is interrupted in the following situations:

- ▶ If the vehicle drives off with a jerky movement.
- ▶ By pressing the button on the outside of the cargo area. Pressing it again opens the cargo area again.
- ▶ By pressing the button on the inside of the cargo area. Pressing it again opens the cargo area again.
- ▶ By pressing the button on the vehicle key. Pressing it again opens the cargo area again.
- ▶ By releasing the button in the driver's door. Pulling again and holding continues the closing motion.

## Opening and closing the cargo area contactlessly

### Principle

You can open the cargo area contactlessly when carrying the vehicle key on your person.



With automatic tailgate activation, the cargo area can also be closed contactlessly.

Sensors detect specific foot movements near the center of the rear area, and the cargo area opens or closes.

## General information

Function availability depends on vehicle equipment and national-market version.

If the vehicle key is located outside of the vehicle rear, the cargo area may open or close inadvertently if any unintentional or presumed foot movement is detected.

If contactless opening is used for the cargo area, the locked doors will not be unlocked.

Depending on the national-market version, contactless opening and closing of the cargo area is also possible for compatible smart-phones with a digital key.

Additional information:

BMW Digital Key, refer to page 79.

## Safety information

### WARNING

With hands-free opening of the cargo area, there may be unintentional contact with vehicle parts, e.g., hot exhaust system. There is a risk of injury. When moving your foot, make sure you have a firm stance and do not touch the vehicle.

## Functional requirements

- ▶ To close the cargo area contactlessly, the automatic tailgate must be installed.
- ▶ Selector lever position P must be engaged.
- ▶ Contactless opening and closing of the cargo area must be activated in the settings.

- ▶ Bluetooth must be activated on the smart-phone to open and close the cargo area contactlessly using the digital key.
- ▶ The trailer power socket must be unoccupied.
- ▶ A vehicle key or digital key is located directly behind the cargo area.

Additional information:

Settings, refer to page 93.

## Hands-free opening of the cargo area

1. Carry a vehicle key or digital key with you.
2. Stand in the middle behind the vehicle, approx. one forearm's length from the rear of the vehicle.



3. Wave a foot under the vehicle in the driving direction and immediately pull it back. The foot movement is only complete when the foot has reached the ground again.



4. Wait until the hazard warning system flashes to confirm the foot movement. The cargo area opens automatically. If the foot movement is not detected, move your foot slightly to the right or left of center again, as necessary.

Depending on vehicle equipment, moving a foot again will stop the opening process. The subsequent foot movement will close the cargo area again.

### Hands-free closing of the cargo area

Perform the foot movement for opening the cargo area.

The hazard warning system flashes and an acoustic signal sounds.

Moving a foot again will stop the closing process. The subsequent foot movement will open the cargo area again.

### System limits

The detection of the foot movement may be limited due to the following external conditions:

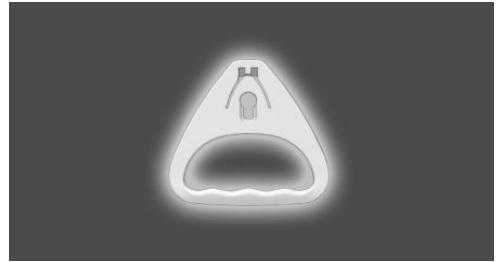
- ▶ Ice, snow or slush on the rear of the vehicle.
- ▶ Dirt or road salt on the rear of the vehicle.
- ▶ If the sensors are dirty or covered, e.g., by stickers or covers of any kind.
- ▶ After paint work was done incorrectly on the rear of vehicle.

Movement in range of the sensors may cause the cargo area to open or close unintentionally, e.g., when objects are lifted quickly in the vehicle rear or due to the moving brushes in a car wash. To prevent such unintended opening of the cargo area in such cases, keep the vehicle key at a sufficient distance from the rear of the vehicle.

### Malfunction

The vehicle may be unable to detect the vehicle key if there are any objects or electronic devices between the vehicle key and the vehicle. Do not transport the vehicle key together with metallic objects or electronic devices. For example, do not carry the vehicle key together with a smartphone.

## Emergency cargo area release



Pull the handle inside the cargo area.  
The cargo area is unlocked.

### Malfunction

In the event of an electrical malfunction, operate the unlocked tailgate manually with a slow and smooth motion.

To close the tailgate fully, press down lightly only. Closing occurs automatically.

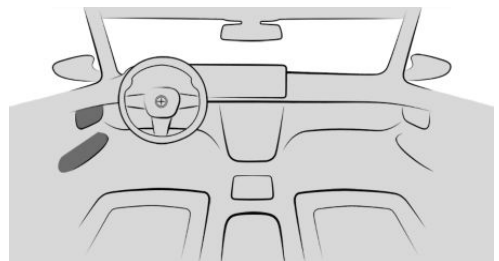
## Buttons for the central locking system

### General information

The vehicle is automatically locked when driving off.

In the event of a severe accident, the vehicle is automatically unlocked. The hazard warning system and interior lights are illuminated.

### Overview





The central locking buttons are located on the front door.



Lock.



Unlock.

## Locking the vehicle



Press the button in the driver's door or front passengers door with the front doors closed.

If the vehicle was locked from the inside, the LED in the button illuminates.

The vehicle is not secured against theft when locking.

## Unlocking the vehicle



Press the button in the driver's door or front passenger's door.

## Opening the door

- ▶  Press the button to unlock all the doors.  
Pull the door opener above the armrest.
- ▶ Front doors: Pull the door opener on the door to open the door. The other doors remain locked.
- ▶ Back doors: Pull twice on the door opener on the door to be opened; the first time unlocks the door, the second time opens it. The other doors remain locked.

## Valet parking mode

### Principle

In the valet parking mode, the control display is disabled.

E.g., this mode can be used when the vehicle is handed over for valet parking.

## General information

Depending on the national-market version, the valet parking mode may not be available.

Valet Parking mode has the following restrictions:

- ▶ Vehicle settings cannot be changed via iDrive.
- ▶ Settings stored to a BMW ID or guest profile cannot be changed.
- ▶ Personal data cannot be displayed.
- ▶ The audio system is muted, with the possible volume of the audio system being limited.
- ▶ Dynamic Stability Control cannot be turned off.
- ▶ The availability of certain settings of the driving modes is limited.
- ▶ The M1 and M2 buttons on the steering wheel are not active.
- ▶ The Head-up display may turn off.

Additional information:

BMW ID/driver profiles, refer to page 69.

## Functional requirement

The driver has registered in the vehicle with a BMW ID.

## Activating the valet parking mode

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Valet parking mode"
5. "Lock tailgate"

The cargo area is locked and disconnected from the central locking system.

6. "PIN"

7. Enter the one-time PIN to activate valet parking mode.
8. "Activate valet parking mode"

## Deactivating valet parking mode

1. Activate the desired BMW ID on the lock screen.
2. Enter the valet parking mode PIN associated with the BMW ID.  
If the one-time PIN for valet parking mode has been forgotten: Enter the login information for the BMW ID or scan the QR code.

## Settings

### General information

Depending on the equipment and national-market version, various settings for opening and closing are possible.

### Unlocking and locking

#### Doors

1.  Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Lock/unlock"
5. "Unlock"
6. Select the desired setting:
  - ▷ "Driver's door only"  
Only the driver's door is unlocked. Pressing again unlocks the entire vehicle.
  - ▷ "All doors"  
The entire vehicle is unlocked.

#### Touchless unlocking/locking

1.  Apps menu
2. "Vehicle"

3. "Doors and windows"
4. "Comfort access"
5. Select the desired setting.

### Preventing unintentional unlocking

1.  Apps menu
  2. "Vehicle"
  3. "Doors and windows"
  4. "Comfort access"
  5. Select "Exclude "Home"".
- The vehicle's hands-free unlocking function does not work at the saved home address.

### Automatic unlocking

1.  Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Lock/unlock"
5. Select the desired setting:
  - ▷ "Unlock doors at end of trip"
  - ▷ "Unlock doors when in P"

If locked, the vehicle unlocks automatically when drive-ready state is turned off or selector lever position P is engaged.

### Automatic locking

1.  Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Lock/unlock"
5. "Lock after a short time"

The vehicle locks automatically after a short period of time if no door is opened after unlocking.

### Confirmation signals from the vehicle

1.  Apps menu
2. "Vehicle"
3. "Doors and windows"



4. "Lock/unlock"
5. Select the desired setting:
  - ▷ "Flash when unlocking"  
Unlocking is confirmed by two flashes.
  - ▷ "Flash when locking"  
Locking is confirmed by one flash.
  - ▷ With alarm system:  
"Sound on lock/unlock"  
Unlocking is confirmed with two sound signals, locking is confirmed with one sound signal.

### Folding mirrors in automatically

1. Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Lock/unlock"
5. "Fold mirrors on lock/unlock"

## Cargo area

### Cargo area and doors

1. Apps menu
2. "Vehicle"
3. "Keys"
4. "Vehicle key"
5. "Tailgate button"
6. Select the desired setting:
  - ▷ "Tailgate"  
Depending on the equipment, the cargo area will be unlocked or opened.
  - ▷ "Tailgate and door(s)"  
Depending on the equipment, the cargo area will be unlocked or opened and the doors are unlocked.
  - ▷ "Tailgate will only open if vehicle is already unlocked"

The vehicle must be unlocked before the cargo area can be operated with the vehicle key.

- ▷ "Lock tailgate button"  
Operating the cargo area with the vehicle key is disabled.

### Opening/closing the cargo area contactlessly

1. Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Tailgate"
5. Select the desired setting.

### Closing the sun protection automatically

The glass sunroof's roller sunblind can be configured to close automatically when the vehicle is locked.

1. Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Close roof blind automatically"
5. Select the desired setting.

## Alarm system

### Principle

The alarm system issues a visual and acoustic signal when someone attempts to open the locked vehicle incorrectly.

### General information

When the vehicle is locked, the vehicle alarm system reacts to the following changes:

- ▷ Opening a door, the hood, or the cargo area.
- ▷ Movements in the vehicle interior.

- ▶ Changes in the vehicle inclination such as during attempts at stealing a wheel or when towing the vehicle.
- ▶ Disconnected battery voltage.
- ▶ Incorrect use of the diagnostic socket.
- ▶ Locking the vehicle while a device is connected to the diagnostic socket.

The alarm system signals these changes visually and acoustically:

- ▶ Acoustic alarm:  
Depending on local regulations, the acoustic alarm may be suppressed.
- ▶ Optical alarm:  
By flashing of the hazard warning system and headlights, where required.

Do not modify the system to ensure function of the alarm system.

## Turning the alarm system on/off

The alarm system is turned on as soon as the vehicle is locked from the outside.

The alarm system does not turn on if the vehicle is locked manually from the inside.

The alarm system is switched off as soon as the vehicle is unlocked.

## Opening the doors with the alarm system switched on

The alarm system is triggered when a door is opened if the door was unlocked using the integrated key in the door lock.

## Opening the cargo area with the alarm system switched on

The cargo area can be opened even when the alarm system is switched on.

After closing the cargo area, the cargo area will be locked and monitored again. The hazard warning system flashes once during closing.

## Panic mode

You can trigger the alarm system if you find yourself in a dangerous situation.



- ▶ Press the button on the vehicle key and hold for at least 3 seconds.
- ▶ Briefly press the button on the vehicle key three times in succession.

To switch off the alarm: Press any button.

## Indicator light on the interior mirror



- ▶ The indicator light flashes briefly every 2 seconds:

The alarm system is switched on.

- ▶ The indicator light flashes for approx. 10 seconds, then flashes briefly every 2 seconds:

Interior motion sensor and tilt alarm sensor are not active, as doors, hood, or tailgate are not correctly closed. Correctly closed access points are secured.

When the remaining open access points are closed, the interior motion sensor and tilt alarm sensor will be turned on.

- ▶ The indicator light flashes even though all access points have been closed:

Alarm system error.

- ▶ The indicator light goes out after unlocking:  
The vehicle has not been tampered with.

- ▶ The indicator light flashes after unlocking until drive-ready state is switched on, but no longer than approx. 5 minutes:



The alarm has been triggered.

## Tilt alarm sensor

The inclination of the vehicle is monitored.

The alarm system triggers, for example, when someone attempts to steal a wheel or when the vehicle is towed.

## Interior motion sensor

The vehicle interior is monitored.

The alarm system triggers when movement is detected inside the vehicle.

The windows must be closed for the system to function properly.

## Avoiding unintentional alarms

### General information

The tilt alarm sensor and interior motion sensor can trigger an alarm, although no unauthorized action occurred.

Possible situations for an unwanted alarm:

- ▶ In car washes or tunnel car washes.
- ▶ In duplex garages.
- ▶ During transport on trains carrying vehicles, at sea or on a trailer.
- ▶ With animals in the vehicle.
- ▶ When the vehicle is locked after start of refueling.

The tilt alarm sensor and the interior motion sensor can be switched off in such situations.

### Switching off the tilt alarm sensor and interior motion sensor



Press the button on the vehicle key within 30 seconds as soon as the vehicle is locked.

The indicator light illuminates for approx. 2 seconds and then continues to flash.

The tilt alarm sensor and interior motion sensor are switched off until the vehicle is locked again.

With a digital key, the alarm system's interior motion sensor and tilt alarm sensor can only be deactivated from the My BMW App.

## Ending the alarm

Unlock the vehicle.

If the vehicle is unlocked with the integrated key, the drive-ready state must subsequently be turned on via the emergency detection of the vehicle key.

## Windows

### General information

When a window is frequently opened to the same position, this task can be performed by the BMW Intelligent Personal Assistant. This is useful if you frequently use the same parking garage, for example.

Additional information:

BMW Intelligent Personal Assistant, refer to page 58.

### Safety information



#### **WARNING**

When operating the windows, body parts and objects can be jammed. There is a risk of injury and risk of property damage. Make sure that the travel path of the windows is clear while opening and closing.

## With the vehicle key

### Opening windows



Press and hold the button on the vehicle key after unlocking.



The windows open for as long as the button on the vehicle key is pressed.

## Closing the windows



With Comfort Access: Press and hold the button on the vehicle key after locking.

The windows close for as long as the button on the vehicle key is pressed.

Depending on the vehicle equipment, exterior mirrors are folded in unless they were folded in during locking. The exterior mirrors are not folded in when the hazard warning system is turned on.

## On the door handle

### Principle

The windows can be closed using the door handle without operating the vehicle key.

The vehicle key is automatically detected near the vehicle.

### General information

The function is available with Comfort Access.

Depending on national-market version, the windows can also be closed via the door handle using a compatible smartphone and digital key.

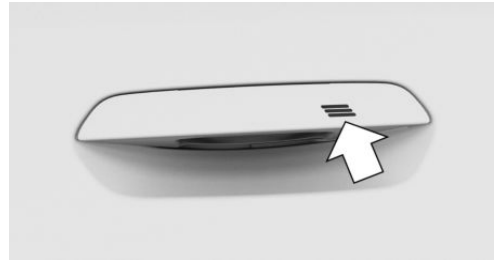
Additional information:

BMW Digital Key, refer to page [79](#).

### Functional prerequisites

- ▶ Carry the vehicle key with you, for instance in your pants pocket.
- ▶ Bluetooth must be activated on the smartphone to close the window(s) using the digital key.

## Closing the windows



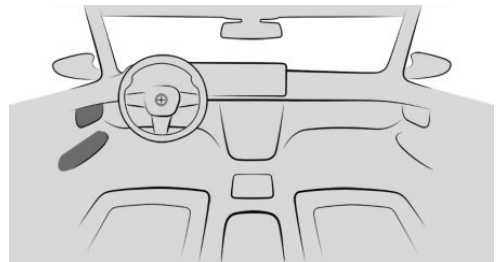
Touch the grooved surface on the door handle of a closed front door with your finger and hold it there without grasping the recessed grip.

In addition to locking, the windows also closed.

Depending on the vehicle equipment, exterior mirrors are folded in unless they were folded in during locking. The exterior mirrors are not folded in when the hazard warning system is turned on.

## Inside the vehicle

### Overview



Power windows

### Functional requirements

The vehicle key or a digital key is inside the vehicle.



## Opening windows

- ▷  Press the switch to the resistance point.  
The window opens while the switch is being held.
- ▷  Press the switch beyond the resistance point.  
The window opens automatically.  
Pressing the switch again stops the motion.

## Closing the windows

- ▷  Pull the switch to the resistance point.  
The window closes while the switch is being held.
- ▷  Pull the switch beyond the resistance point.  
The window closes automatically.  
Pulling again stops the motion.

## Anti-trap mechanism

### Principle

The anti-trap mechanism prevents objects or body parts from becoming trapped between the door frame and window glass while a window is closing.

### General information

If resistance or blockage is detected while a window is being closed, the closing will be interrupted.

### Safety information



#### WARNING

Accessories on the windows such as antennas can impact anti-trap mechanism. There is a risk of injury. Do not install accessories in the travel path of the windows.

## Closing without the anti-trap mechanism

In case of danger from the outside or if icing might prevent normal closing, proceed as follows:

1. Pull the  switch past the resistance point and hold it there.  
The window closes with limited anti-trap mechanism. If the closing force exceeds a specific threshold, closing is interrupted.
2. Pull the  switch past the resistance point again within approx. 4 seconds and hold it there.  
The window closes without the anti-trap mechanism.

## Window roller sunblinds

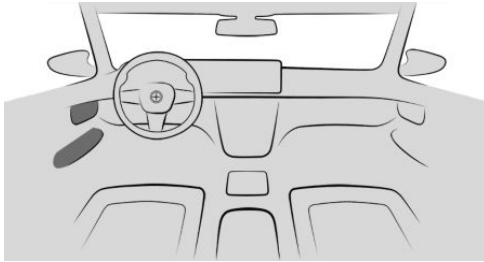
### Safety information



#### WARNING

With closed roller sunblinds and open windows, the roller sunblinds may be strained while driving due to the air stream. The roller sunblinds may be damaged and vehicle occupants may be harmed. There is a risk of injury and risk of property damage. Do not open the windows while driving if the roller sunblinds are closed.

## Overview



Rear window roller blind button.

## Operating the side roller blinds

Pull out the side roller sunblind using the loop and hook it onto the holder.

## Operating the rear roller blind

### On the driver's door



To open/close the rear roller blind, press the button on the driver's door.

If the button is pressed again while moving, the rear roller blind moves in the opposite direction.

## System limits

If you can no longer move the rear roller blind after pressing the button several times, the overheating protection has activated. The system is disabled for a limited time to prevent overheating. Let the system cool down.

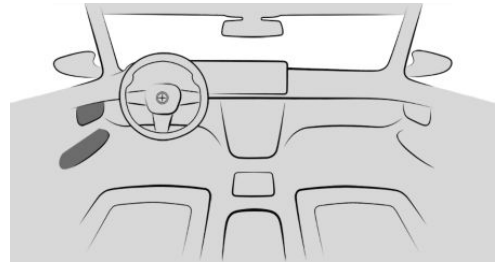
## Safety switch

### Principle

The safety switch can be used to prevent children, for instance, from opening and closing the rear windows using the switches in the rear.

If an accident of a certain severity occurs, the safety function is switched off automatically.

## Overview



The safety switch is located on the driver's door.

## Turning the safety functions on/off



To activate/deactivate the safety function, press the safety switch on the driver's door.

The LED in the button illuminates when the safety function is switched on.

## Glass sunroof

### General

The glass sunroof sun protection can be opened or closed.

The sun protection opens from rear to front.

### With the vehicle key

### Opening the sun protection



Press and hold the button on the vehicle key after unlocking.

The glass sunroof sun protection is opened as long as the button on the vehicle key is pressed.



## Closing the sun protection



With Comfort Access: Press and hold the button on the vehicle key in close range of the vehicle after locking.

The glass sunroof sun protection is closed as long as the button on the vehicle key is pressed.

Depending on the vehicle equipment, exterior mirrors are folded in unless they were folded in while locking. The exterior mirrors are not folded in when the hazard warning system is turned on.

## On the door handle

### Principle

The sun protection can be closed using the door handle without operating the vehicle key.

The vehicle key is automatically detected near the vehicle.

### General information

The function is available with Comfort Access.

Depending on the country, the sun protection can also be closed with the door handle using a compatible smartphone and a digital key.

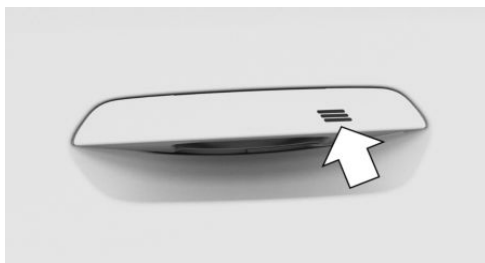
Additional information:

BMW Digital Key, refer to page [79](#).

### Functional prerequisites

- ▶ Carry the vehicle key with you, for instance in your pants pocket.
- ▶ Bluetooth must be activated on the smartphone to close the sun protection using the digital key.

## Closing the sun protection



Touch the grooved surface on the door handle of a closed front door with your finger and hold it there without grasping the recessed grip.

Besides locking the vehicle, the windows and sun protection will be closed and locked.

Depending on the vehicle equipment, exterior mirrors are folded in unless they were folded in while locking. The exterior mirrors are not folded in when the hazard warning system is turned on.

## Inside the vehicle

### Functional requirements

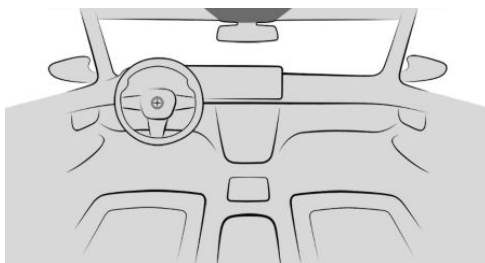
The sun protection can be operated under the following conditions:

- ▶ Standby state is switched on.
- ▶ Drive-ready state is switched on.

The vehicle key must be inside the vehicle.

### Button in the headliner

#### Overview





Opening/closing the sun protection.

Additional information:  
Settings, refer to page 93.

## Initializing after a power interruption

### General information

If the power is interrupted while opening or closing, the sun protection can only be operated to a limited extent. Initializing the system can help in this case.

The system can be initialized under the following conditions:

- ▷ The vehicle is parked on level ground.
- ▷ The vehicle will not be moved until the initialization is completed.
- ▷ The drive-ready state is established.

During initialization, the sun protection closes without the anti-trap mechanism.

Make sure that the closing path is clear.

### Initializing the system



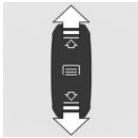
Press the switch up and hold it until the initialization is complete:

Initialization begins within 15 seconds.

- ▷ If the sun protection is closed, it opens then closes again.
- ▷ If the sun protection is open, it closes first, then opens and closes again.

Initialization is complete once the sun protection has opened then closed again.

### Operation



- ▷ The sun protection is closed as long as the switch is held down.
- ▷ Holding down the switch opens the sun protection.
- ▷ The sun protection closes automatically. Pressing the switch again stops the motion.
- ▷ The sun protection opens automatically. Pressing the switch again stops the motion.



Push switch up.

The sun protection moves to a defined position to provide partial shading.

Pressing the switch again closes the sun protection.

### Control display

#### Operation

1.  Apps menu
2. "Vehicle"
3. "Doors and windows"
4. "Sun blinds"
5. Select the desired function.

### Closing the sun protection automatically

The sun protection closes automatically when the vehicle is locked.

When the vehicle is unlocked, the sun protection moves to its last position.

This function can be deactivated in the settings, depending on vehicle equipment.

# Seats, mirrors and steering wheel

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Sitting safely

An ideal seat position that meets the needs of the occupants can make a vital contribution to relaxed, fatigue-free driving.

In the event of an accident, the correct seat position plays an important role. Follow the information in the following chapters.

Additional information:

- ▶ Seats, refer to page 102.
- ▶ Seat belts, refer to page 105.
- ▶ Head restraints, refer to page 108.
- ▶ Airbags, refer to page 173.

## Seats

### Safety information

#### WARNING

Seat setting while driving can lead to unexpected movements of the seat. There is a risk of accident, injury, and property damage. Only adjust the seats when the vehicle is stationary.

#### WARNING

With a backrest inclined too far to the rear, the protective effect of the seat belt can no longer be ensured. There is a risk of sliding under the seat belt in an accident. There is a risk of injury and danger to life. Adjust the seat prior to starting the trip. Adjust the backrest so that it is in the most upright position as possible and do not adjust again while driving.

#### WARNING

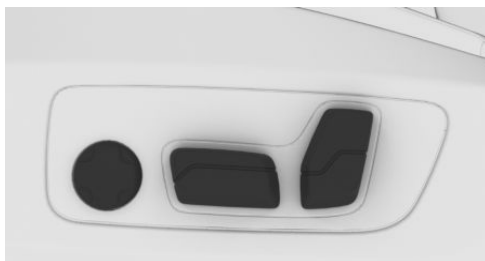
There is a danger of jamming when moving the seats. There is a risk of injury and risk of property damage. Make sure that the travel path of the seat is clear prior to any adjustment.

## Electrically adjustable seats

### General information

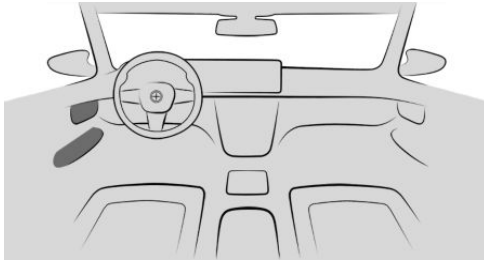
The current seat position can be stored using the memory function.

### Overview



The switches for setting the seats are located on the front seats.

## Seat settings menu

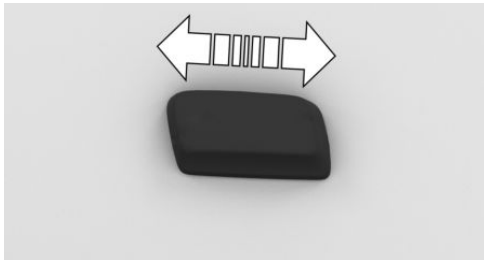


The seat adjustment menu button is located on the front door.



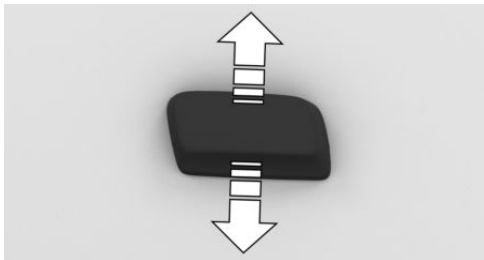
Press the button to go directly to the seat settings menu on the control display.

## Setting the longitudinal direction



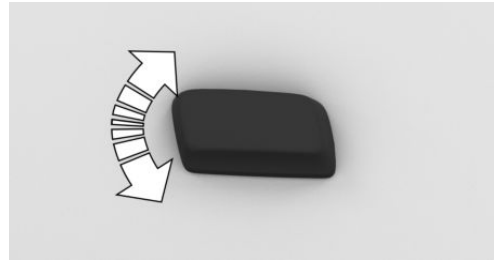
Press switch forward or backward.

## Adjusting the height



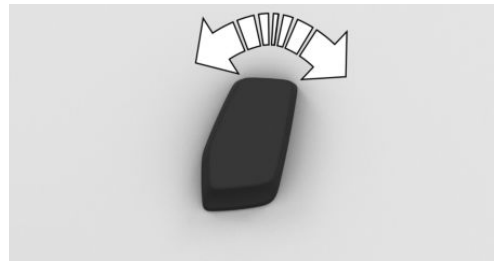
Press switch up or down.

## Adjusting seat tilt



Tilt switch up or down.

## Adjusting backrest tilt



Tilt switch forward or backward.

## Adjusting the seat position automatically

### General information

The seat setting for the driver's seat is stored in the active BMW ID or in the active driver profile. If the BMW ID or the driver profile is reactivated at a later time, the saved position will be called up automatically.

### Activate/deactivate the function

1.  Apps menu
2. "Vehicle"
3. "Seat comfort"
4. Select driver's seat.
5. "Use automatically"
6. Select the desired setting.

## Thigh support

### Multifunction seat

1.  Apps menu
2. "Vehicle"
3. "Seat comfort"
4. Select desired seat.
5. Select the desired function.
6. Select the desired setting.

## Lumbar support

### Principle

The curvature of the seat backrest can be adjusted in a way that it supports the lumbar region of the spine. The lower back and the spine are supported for upright sitting position.

### Adjusting the lumbar support



- ▶ Press the front/rear section of the button:

The curvature is increased/decreased.

- ▶ Press the upper/lower section of the button:

The curvature is shifted up/down.

### Functional limitation

It may not be possible to adjust the lumbar support at very high and very low temperatures.

## Backrest width

### Principle

Adjusting the backrest width may improve side support when cornering.

### General information

The backrest width is changed by adjusting the side sections of the backrest.

When exiting the vehicle, the backrest width opens completely. The last set position is automatically applied before you start driving.

### Adjusting the backrest width

1.  Apps menu
2. "Vehicle"
3. "Seat comfort"
4. Select desired seat.
5. Select the desired function.
6. Select the desired setting.

## Calibrating the front seats

### General information

If the electric seat adjuster is no longer working properly, the driver's seat is calibrated automatically. The driver's seat is calibrated automatically after the vehicle is exited and the doors closed.

If the driver's seat cannot be calibrated automatically or calibration of the front passenger seat is required, a Check Control message appears on the control display. The front seats must be calibrated in order for the electric seat adjuster to work properly again.

## Safety information



### WARNING

There is a danger of jamming when moving the seats. There is a risk of injury and risk of property damage. Make sure that the travel path of the seat is clear prior to any adjustment.

### Functional requirements

To calibrate the front seats, the following functional requirements must be met:

- ▶ Selector lever position P is engaged.
- ▶ The seat to be calibrated is unoccupied.



## Calibrating the front seat manually

1. To calibrate the rear seat position, press and hold the longitudinal direction switch backward until the seat stops.
2. Repeat step 1 until the seat stops then moves slightly in the opposite direction. The rear end position is calibrated.
3. To calibrate the front seat position, press and hold the longitudinal direction switch forward until the seat stops.
4. Repeat step 3 until the seat stops then moves slightly in the opposite direction. The front end position is calibrated.

As soon as the message on the control display disappears, the calibration is complete. If the message remains active, repeat the calibration.

If the message is still shown after repeated calibration, have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Comfort exit

### Principle

The seat position can be adjusted automatically to make it easier to get in and out of the vehicle.

### General information

- ▶ The backrest width completely opens temporarily.
- ▶ The seat moves back.

### Activating/deactivating the setting

1.  Apps menu
2. "Vehicle"
3. "Seat comfort"
4. "Comfort exit"
5. Select the desired setting.

## Seat belts

### General information

The vehicle is fitted with five seat belts to ensure occupant safety. However, they can only offer protection when adjusted correctly.

Always make sure that seat belts are being worn by the occupants before driving off. The airbags supplement the seat belts as an additional safety device. The airbags do not replace seat belts.

All seat belt anchorage points are designed to achieve the best possible protective effect of the seat belts when used properly and with the correct seat settings.

The two outer seat belt buckles of the rear seats are intended for the persons sitting on the left and right.

The center seat belt buckle of the rear seats is intended for the person sitting in the middle.

Additional information:

Notes on sitting safely, refer to page [102](#).

### Safety information

#### **WARNING**

Use of a seat belt to buckle more than one person will potentially defeat the ability of the seat belt to serve its protective function. There is a risk of injury and danger to life. Do not strap in more than one person per single seat belt. Infants and children are not allowed on an occupant's lap, and must be transported and secured in designated child restraint systems.

#### **WARNING**

The protective effect of safety gear, including seat belts, may be limited or lost when seat belts are fastened incorrectly. An incorrectly fastened seat belt can cause additional injury.

ries, for instance in the event of an accident, braking or evasive maneuvers. There is a risk of injury and danger to life. Make sure that all occupants are wearing seat belts correctly.

 **WARNING**

With a rear seat backrest that is not locked, the protective effect of the middle seat belt is not guaranteed. There is a risk of injury and danger to life. If you are using the middle seat belt, lock the wider rear seat backrest.

 **WARNING**

The protective effect of safety gear, including seat belts, may be limited or fail in the following situations:

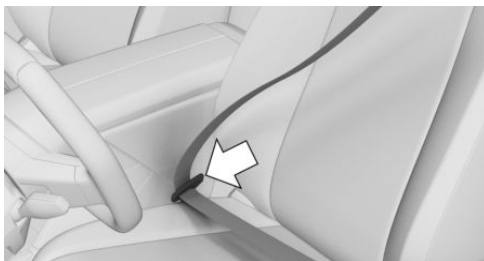
- ▷ The seat belts or seat belt buckles are damaged, soiled, or changed in any other way.
- ▷ Seat belt tensioners or seat belt winders were modified.

Seat belts can be imperceptibly damaged in the event of an accident. There is a risk of injury and danger to life. Keep clean and do not modify: Seat belts, seat belt buckles, seat belt tensioners, seat belt winders, and seat belt anchors. After an accident, have the seat belts checked by an authorized service center or another qualified service center or repair shop.

- ▷ Do not rub the seat belt against sharp edges, or guide it or jam it in across hard or fragile objects.
- ▷ Avoid thick clothing.
- ▷ Re-tighten the seat belt frequently upward in your upper body area.

## Fastening the seat belt

1. Guide the seat belt slowly over shoulder and hip to put it on.
2. Insert the buckle tongue into the seat belt buckle. The seat belt buckle must engage audibly.



To ease accessibility to the seat belt buckle, an adjustable slider is available on the belt to help position the buckle when not in use.

## Unfastening the seat belt

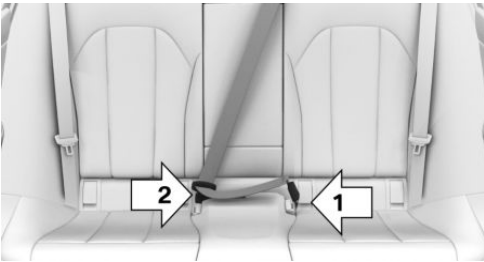
1. Hold down the seat belt firmly.
2. Press the red button in the seat belt buckle.
3. Guide the seat belt back into the seat belt winder.

## Correct use of seat belts

- ▷ Wear the seat belt so that it fits tightly to your body over your pelvis and shoulder and is not twisted.
- ▷ Wear the seat belt low down on your hips in the pelvic region. The seat belt must not press on your stomach.

## Middle seat belt in the rear

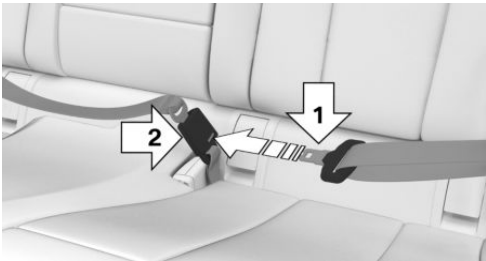
### Fastening the seat belt



1. Release buckle tongue from the fixture on the rear shelf.
  2. Insert the lower buckle tongue in the belt lock, arrow 1.
  3. Insert the upper buckle tongue in the seat belt buckle, arrow 2.
- The seat belt buckles must engage audibly.

### Unfastening the seat belt

1. Hold down the seat belt firmly.
2. Press the red button in the belt buckle.
3. Open the belt lock, arrow 2, with the buckle tongue, arrow 1.



4. Guide the seat belt to the fixture on the rear shelf.

## Seat belt reminder

### General information

Make sure that the seat belts are positioned correctly.

The seat belt reminder becomes active in the following situations:

- ▷ When the seat belt on the driver's side or on the passenger's side is not fastened.
- ▷ When the seat belt is unfastened while driving.
- ▷ When objects are lying on a seat.

### Display in the instrument cluster

The indicator light in the instrument cluster illuminates after turning on the drive-ready state when the seat belt reminder is active.

A Check Control message is displayed where applicable. Check whether the seat belt has been fastened correctly.

| Icon                                                                               | Meaning                                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|   | Seat belt on the driver's seat is not buckled.                                 |
|   | Seat belt on the passenger seat or another seat in the vehicle is not buckled. |
|   | Seat belt is buckled on the corresponding seat.                                |
|  | Seat belt is not buckled on the corresponding seat.                            |

## Rear Occupant Alert

### Principle

At the end of a trip, the system informs the driver of the possible presence of occupants on the rear seats.

### General information

If a door with access to the rear seat row is operated within 30 minutes before starting a trip, a notice appears on the control display and a signal tone sounds at the end of the trip.



If the drive is continued within 30 minutes, the notice is displayed again after the drive is complete.

## Activate/deactivate the function

1. Apps menu
2. "System settings"
3. "Rear Occupant Alert"
4. Select the desired setting.

## Safety mode

Depending on vehicle equipment, the driver and front passenger seat belt straps are automatically tightened once after driving off, if the seat belt is fastened.

If necessary, in critical driving situations, e.g., during emergency braking, the front seat belts are automatically pretensioned.

After a critical driving situation without an accident, the front seat belts are loosened again. If the belt tension does not loosen automatically, stop the vehicle and unbuckle the seat belt using the red button in the buckle. Fasten the seat belt before continuing to drive.

## Front head restraints

### General information

Depending on vehicle equipment, the head restraints move to the lowest position after the vehicle is exited. The last set position is automatically applied before you start driving.

### Safety information

#### **WARNING**

The lack of protective effect due to removal or incorrect adjustment of head restraints can cause injuries in the head and neck area. There is a risk of injury.

- ▷ Before driving, install the removed head restraints on the occupied seats.
- ▷ If possible, adjust the head restraint so that the center of the head restraint supports the back of the head at eye level.
- ▷ Adjust the distance so that the head restraint is as close as possible to the back of the head. Adjust the distance via the backrest tilt as needed.
- ▷ For manually adjustable head restraints: after adjusting, make sure that the head restraint is correctly engaged.

#### **WARNING**

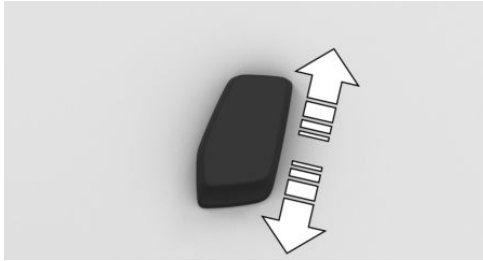
Body parts can be jammed when moving the head restraint. There is a risk of injury. Make sure that the area of movement is clear when moving the head restraint.

#### **WARNING**

Objects on the head restraint reduce the protective effect in the head and neck area. There is a risk of injury.

- ▷ Do not use seat or head restraint covers.
- ▷ Do not hang objects, for instance clothes hangers, directly on the head restraint.
- ▷ Only use accessories that have been determined to be safe for attachment to a head restraint.
- ▷ Do not use any accessories, for instance pillows, while driving.

## Adjusting the height: Electric head restraints



Press switch up or down.

## Adjusting the distance

The distance to the back of the head is adjusted via the backrest inclination.

Adjust the distance so that the head restraint is as close as possible to the back of the head.

## Removing the head restraints

The head restraints cannot be removed.

## Rear head restraints

### Safety information

#### **WARNING**

The lack of protective effect due to removal or incorrect adjustment of head restraints can cause injuries in the head and neck area. There is a risk of injury.

- ▷ Before driving, install the removed head restraints on the occupied seats.
- ▷ If possible, adjust the head restraint so that the center of the head restraint supports the back of the head at eye level.

- ▷ Adjust the distance so that the head restraint is as close as possible to the back of the head. Adjust the distance via the backrest tilt as needed.
- ▷ For manually adjustable head restraints: after adjusting, make sure that the head restraint is correctly engaged.

#### **WARNING**

Body parts can be jammed when moving the head restraint. There is a risk of injury. Make sure that the area of movement is clear when moving the head restraint.

#### **WARNING**

Objects on the head restraint reduce the protective effect in the head and neck area. There is a risk of injury.

- ▷ Do not use seat or head restraint covers.
- ▷ Do not hang objects, for instance clothes hangers, directly on the head restraint.
- ▷ Only use accessories that have been determined to be safe for attachment to a head restraint.
- ▷ Do not use any accessories, for instance pillows, while driving.

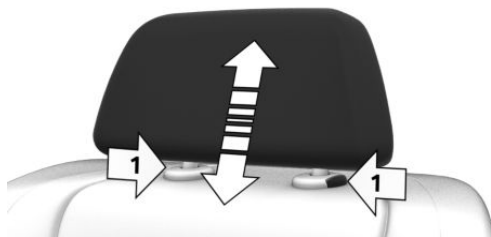
## Adjusting the height of the outer head restraints



- ▶ To lower: Press the button, arrow 1, and push the head restraint down.
- ▶ To raise: Push the head restraint up.

## Adjusting the height of the center head restraint

If someone is sitting on the corresponding seat, adjust the head restraint so that the center of the head restraint supports the back of their head at eye level.



- ▶ To lower: Press the buttons, arrows 1, and push the head restraint down.
- ▶ To raise: Push the head restraint up.

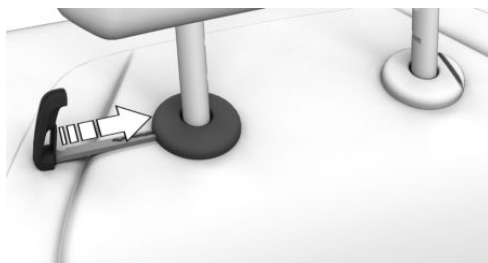
## Removing the outer head restraint

Only remove the head restraint if no one will be sitting in the seat in question.

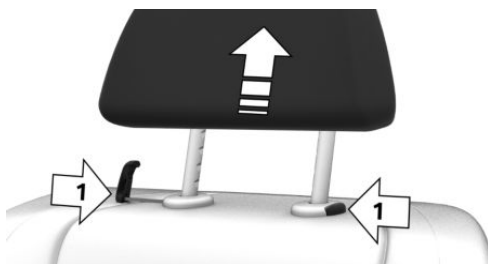
1. Fold down the rear seat backrest in question.

Enlarging the cargo area, refer to page [311](#).

2. Raise the head restraint up against the resistance.
3. Insert the integrated key.  
Integrated key, refer to page [74](#).



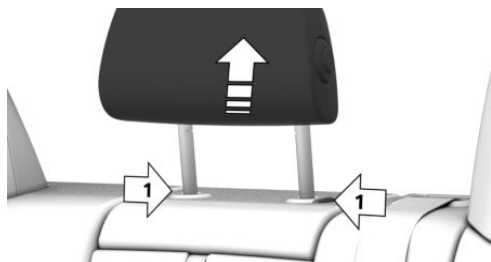
4. Press and hold the integrated key and the button at the same time, arrows 1, and pull out the head restraint completely.



## Removing the center head restraint

Only remove the head restraint if no one will be sitting in the center seat.

1. Raise the head restraint up against the resistance.
2. Press the buttons, arrows 1, and pull the head restraint out completely.



## Installing the head restraints

Proceed in the reverse order to install the head restraint.

## Exterior mirrors

### General information

The front passenger's side exterior mirror is more curved than the driver's side mirror.

The exterior mirror adjustment is stored in the active BMW ID or in the active driver profile. If the BMW ID or the driver profile is reactivated at a later time, the stored position is called up automatically.

The current exterior mirror adjustment can be stored using the memory function.

Depending on vehicle equipment, the driver's side exterior mirror also dims automatically. Photocells in the interior mirror are used to control this.

Depending on vehicle equipment, both exterior mirrors are heated automatically as necessary and when drive-ready state is on.

## Safety information

### WARNING

Objects in the mirror are closer than they appear. The distance to the road users behind could be incorrectly estimated, for instance while changing lanes. There is a risk of accident, injury, and property damage. Estimate the distance to the traffic behind by looking over your shoulder.

## Overview



| Icon                                                                                | Meaning                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------|
|    | Fold the exterior mirrors in and out.                |
|   | Adjust the exterior mirrors.                         |
|  | Select left exterior mirror, Automatic Curb Monitor. |
|  | Select right exterior mirror.                        |



Fold the exterior mirrors in and out.



Adjust the exterior mirrors.



Select left exterior mirror, Automatic Curb Monitor.



Select right exterior mirror.

## Adjusting the exterior mirrors



Press the button.

The selected exterior mirror moves along with the button movement.

## Selecting the exterior mirror

- ▷  Press the button to select the left exterior mirror. The LED illuminates.
- ▷  Press the button to select the right exterior mirror. The LED illuminates.

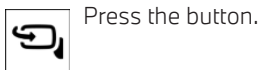
## Malfunction

In case of an electrical malfunction, adjust the exterior mirror by pressing on the edges of the mirror glass.

## Folding in/folding out the exterior mirrors

### NOTICE

Depending on the vehicle width, the vehicle can be damaged in tunnel car washes. There is a risk of property damage. Before washing, fold in the mirrors by hand or with the button.



Press the button.

Folding is possible at vehicle speeds of up to approx. 12 mph /20 km/h.

Folding the exterior mirrors in and out is helpful in the following situations:

- ▷ In car washes.
- ▷ On narrow roads.

Exterior mirrors that were folded in are folded out automatically at a speed of approx. 25 mph /40 km/h.

## Automatic heating

Both exterior mirrors are automatically heated as needed and when the drive-ready state is switched on.

## Automatic dimming

The exterior mirror on the driver's side is automatically dimmed. Photocells in the interior mirror are used to control this.

## Automatic Curb Monitor

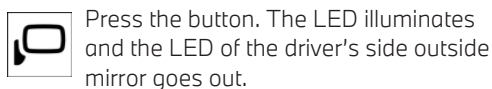
### Principle

If reverse gear is engaged, the mirror glass on the passenger's side is tilted downward. This improves your view of the curb and other low-lying obstacles when parking, for instance.

## Activating the Automatic Curb Monitor

1.  Press the button. The LED illuminates.
2. Engage selector lever position R.

## Deactivating the Automatic Curb Monitor



Press the button. The LED illuminates and the LED of the driver's side outside mirror goes out.

## Interior mirror, automatic dimming feature

### General information

The interior mirror is dimmed automatically. Photocells are used for control:

- ▷ In the mirror glass.
- ▷ On the rear of the mirror.



## Overview



## Functional requirements

- ▶ Keep the photocells clean.
- ▶ Do not cover the area between the interior mirror and the windshield.

## Steering wheel

### Safety information

#### **WARNING**

Steering wheel adjustments while driving can lead to unexpected steering wheel movements. There is a risk of accident, injury, and property damage. Adjust the steering wheel while the vehicle is stationary only.

## Electric steering wheel adjustment

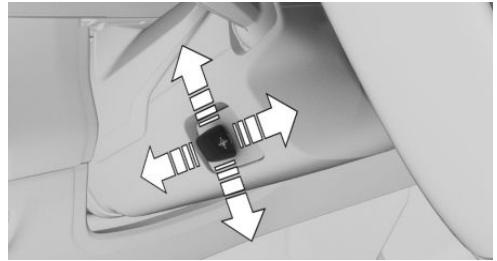
### General information

The steering wheel adjustment is stored in the active BMW ID or in the active driver profile. If the BMW ID or the driver profile is reactivated at a later time, the stored position is called up automatically.

The current steering wheel position can be stored using the memory function.

To make getting in and out of the vehicle easier, the steering wheel temporarily moves to a comfort position.

## Adjusting the steering wheel position



Press the switch to adjust the steering wheel forward/back position and height to the seat position.

## Memory function

### Principle

The following settings can be stored and, if necessary, retrieved using the memory function:

- ▶ Seat position.
- ▶ Exterior mirror adjustment.
- ▶ Depending on vehicle equipment: Steering wheel position.
- ▶ Height of the Head-up display.

### Safety information

#### **WARNING**

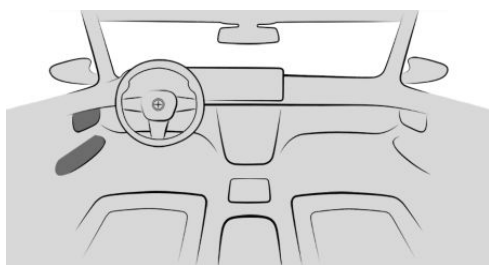
Using the memory function while driving can lead to unexpected seat or steering wheel movements. There is a risk of accident, injury, and property damage. Only retrieve the memory function when the vehicle is stationary.

**WARNING**

There is a danger of jamming when moving the seats. There is a risk of injury and risk of property damage. Make sure that the travel path of the seat is clear prior to any adjustment.

## Memory function

### Overview



The memory buttons are located on the front doors.

| Icon | Meaning          |
|------|------------------|
|      | SET button.      |
|      | Memory button 1. |
|      | Memory button 2. |

### Storing settings

Using the button:

1. Set the desired position.

2. Press the button. The LED illuminates.

3. Press the desired memory button as long as the LED is illuminated. A signal sounds.

Via iDrive:

1. Apps menu
2. "Vehicle"
3. "Seat comfort"
4. Select desired seat.
5. "Seat position"
6. Save the desired seat position.

### Calling up settings

Using the button:

Press the desired memory button 1 or 2.

The stored position is called up.

The procedure stops when a seat setting switch or one of the memory buttons is pressed again.

The adjustment of the seat position on the driver's side is interrupted after a short time while driving.

Via iDrive:

1. Apps menu
2. "Vehicle"
3. "Seat comfort"
4. Select desired seat.
5. "Seat position"
6. Select the desired seat position.

# Transporting children safely

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## The right place for children

### Safety information

#### **WARNING**

Unattended children or animals in the vehicle can cause the vehicle to move and endanger themselves and traffic, for example, due to the following actions:

- ▷ Establishing standby.
- ▷ Releasing the parking brake.
- ▷ Opening and closing the doors or windows.
- ▷ Engaging selector lever position N.
- ▷ Using vehicle equipment.

There is a risk of accident, injury, and property damage. Do not leave children or animals unattended in the vehicle. Take the vehicle key with you when exiting and lock the vehicle.

#### **WARNING**

A hot vehicle may result in death to persons, especially children, or animals. There is a risk of injury and danger to life. Do not leave people, especially children, or animals unattended in the vehicle.

#### **WARNING**

Exposure to intense sunlight can cause child restraint systems and their components to become very hot. Persons may sustain burn injuries when touching the hot components. There is a risk of injury. Do not expose the child restraint system to direct sunlight or cover where necessary. If necessary, let the child restraint system cool down before transporting a child. Do not leave children unattended in the vehicle.

## Children in the rear seat

### General information

Accident research shows that the safest place for children is in the rear seat.

Children younger than 13 years of age or shorter than 5 ft/150 cm should be transported in the rear seat in suitable child restraint systems designed for the age, weight and size of the child. Children 13 years of age or older must wear a seat belt as soon as a suitable child restraint system can no longer be used due to their age, weight, or size.

## Safety information

### WARNING

The seat belt cannot be fastened correctly on children shorter than 5 ft/150 cm without suitable additional child restraint systems. The protective effect of safety gear, including seat belts, may be limited or lost when seat belts are fastened incorrectly. An incorrectly fastened seat belt can cause additional injuries, for instance in the event of an accident, braking or evasive maneuvers. There is a risk of injury and danger to life. Secure children shorter than 5 ft/150 cm using suitable child restraint systems.

## Children on the front passenger seat

### General information

When using a child restraint system on the front-passenger seat, observe the respective national and local regulations.

When using a child restraint system on the front passenger seat, make sure that the front passenger airbag is deactivated.

Additional information:

Automatic deactivation of front passenger airbag, refer to page [175](#).

### Safety information

### WARNING

If activated, the front passenger airbag can injure children seated in a child restraint systems when deployed. There is a risk of injury. Make sure that the front passenger airbag is deactivated and that the PASSENGER AIR-BAG OFF indicator light is illuminated.

## Installing child restraint systems

### General information

Pay attention to the specifications and the operating and safety information of the child restraint system manufacturer when selecting, installing, and using child restraint systems.

The vehicle is equipped with three-point seat belts on all seats. All compatible child restraint systems can be secured with a seat belt.

Declaration according to FMVSS 210, Seat belt assembly anchorages: Child restraint systems are designed to be secured in vehicle seats by lap belts or the lap belt portion of a lap-shoulder belt.

### Safety information

### WARNING

Child restraint systems may provide limited protection in the following situations:

- ▷ The child restraint systems are not installed correctly.
- ▷ Children are not properly secured by a child restraint system.

There is a risk of injury and danger to life. Make sure that child restraint systems are installed correctly in the vehicle and that children are properly secured by the child restraint system.

### WARNING

The protective effect of child restraint systems and their fastening systems which have been damaged or exposed to an accident may be limited or lost. A child cannot be properly restrained in the event of an accident, braking or evasive maneuvers. There is a risk of injury and danger to life.

Do not use child restraint systems which have been damaged or exposed to an accident.

If attachment systems have been damaged or strained by an accident, have them checked and replaced by an authorized service center or another qualified service center or repair shop.

### **WARNING**

The stability of the child restraint system is limited or compromised with incorrect seat setting or improper installation of the child seat. There is a risk of injury and danger to life. Make sure that the child restraint system fits securely against the backrest. If possible, adjust the backrest tilt for all affected backrests and correctly adjust the seats. Make sure that seats and backrests are securely engaged or locked. If possible and necessary, adjust the height of the head restraints or remove them.

## On the front passenger seat

### Deactivating the airbag

### **WARNING**

If activated, the front passenger airbag can injure children seated in a child restraint systems when deployed. There is a risk of injury. Make sure that the front passenger airbag is deactivated and that the PASSENGER AIRBAG OFF indicator light is illuminated.

After mounting a child restraint system on the front passenger seat, make sure that the front passenger airbag is deactivated.

Additional information:

Automatic deactivation of front passenger airbag, refer to page [175](#).

## Seat position and height

After mounting a child restraint system, move the front passenger seat as far back as it will go and, if possible, to the lowest position. This seat position and height ensure the best possible position for the belt and offers optimal protection in the event of an accident.

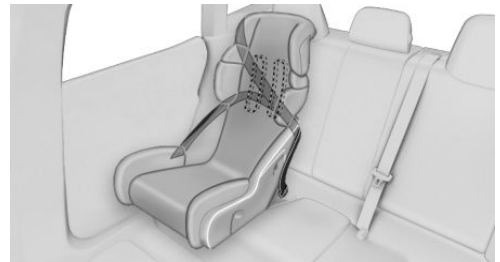
After mounting a universal child restraint system, adjust the tilt of the seat backrest so that the belt is not constrained.

If the upper attachment point of the seat belt is located in front of the seat belt guide of the child seat, move the front passenger seat carefully forward until the best possible seat belt guide position is reached.

## Backrest width

Adjustable backrest width: Before installing a child restraint system on the front passenger seat, open the backrest width completely. Do not change the backrest width again and do not call up a memory position.

## Child seat security



To secure child restraint systems, the rear seat belts and front passenger seat belt can be locked to prevent them from being pulled out.



## Locking the seat belt

1. Pull out the seat belt strap completely.
2. Secure the child restraint system with the seat belt.
3. Allow the seat belt strap to be pulled in and pull it tight against the child restraint system. The seat belt is locked.

## Unlocking the seat belt

1. Unbuckle the seat belt buckle.
2. Remove the child restraint system.
3. Allow the seat belt strap to be pulled in completely.

## Lower anchors for child restraint systems

### General information

LATCH: Lower Anchors and Tether for Children.

Pay attention to the specifications, operating tips and safety instructions from the child restraint system manufacturer when selecting, installing, and using child restraint systems.

### Mounts for lower anchors

#### General information

The lower anchors may be used to attach the CRS to the vehicle seat up to a combined child and CRS weight of 65 lbs/30 kg when the child is restrained by the internal harnesses.

#### Safety information

##### **WARNING**

If the lower anchors on child restraint system are not engaged correctly, the child restraint system will not be able to provide suitable protection. There is a risk of injury and danger to life. Make sure that the lower anchors

are correctly engaged and that the child restraint system fits securely against the backrest.

##### **WARNING**

The mounts for the lower anchors and attachment points of the child restraint system are intended for attaching child restraint systems only. If other objects are attached, the mounts or attachment points can be damaged. There is a risk of injury and risk of property damage. Only attach child restraint systems at the corresponding mounts for the lower anchors or attachment points.

##### **WARNING**

Exceeding or falling below specified limit values, e.g., weight, distance traveled, or speed, can result in damage and malfunctions as well as put health at risk. There is a risk of injury, danger to life, and risk of property damage. Comply with the specified limit values.

## Position

| Icon                                                                                                                                                                   | Meaning                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br> | <p>The corresponding icon shows the mounts for the lower LATCH anchors.</p> <p>Seats equipped with lower anchors are marked with a pair (2) of LATCH icons.</p> <p>For vehicles equipped with a middle seat:</p> <p>It is not recommended to use the inner lower anchors of standard outer LATCH positions to secure a child restraint system on the middle seat. Use the vehicle seat belt instead for the middle seat.</p> |

## Before installing child restraint systems

Before installing a child restraint system, pull the seat belt away from the area of the lower anchors of the child restraint system.

## Installing child restraint systems

1. Mount child restraint system, see manufacturer's information.
2. Make sure that the child restraint system mount is correctly engaged in the lower anchor on both sides.

## Child restraint systems with tether strap

### General information

When attaching child restraint systems to the upper attachment points, observe the specifications and the operating and safety information of the child restraint system manufacturer.

## Safety information

### **WARNING**

If the upper retaining strap is incorrectly used for the child restraint system, the protective effect is reduced. There is a risk of injury. Ensure that the upper retaining strap is guided to the upper attachment point without twisting and not over sharp edges.

### **WARNING**

If the rear seat backrest is not locked, the protective effect of the child restraint system is limited or nonexistent. In certain situations, for instance braking maneuvers or in case of an accident, the rear seat backrest can fold forward. There is a risk of injury and danger to life. Make sure that the rear seat backrests are locked.

### **WARNING**

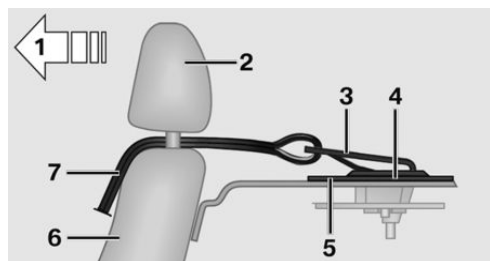
The mounts for the lower anchors and attachment points of the child restraint system are intended for attaching child restraint systems only. If other objects are attached, the mounts or attachment points can be damaged. There is a risk of injury and risk of property damage. Only attach child restraint systems at the corresponding mounts for the lower anchors or attachment points.



## Attachment points for upper retaining strap

| Icon                                                                             | Meaning                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The respective icon shows the attachment point for the upper retaining strap. Seats with an upper top tether are marked with this icon. It is located on the rear seat backrest, the rear shelf or the rear seat. |

## Routing the retaining strap



- 1 Driving direction
- 2 Head restraint
- 3 Hook for upper retaining strap
- 4 Attachment point
- 5 Rear shelf
- 6 Seat backrest
- 7 Upper retaining strap

## Attaching the upper retaining strap to the attachment point

1. Open the attachment point cover.
2. Raise the head restraint.
3. Guide the upper strap between the head restraint rods, or along both sides of the head restraint rods, to the attachment point.

Center seat: Guide the upper strap between the head restraint rods, or along both sides

of the head restraint rods, to the attachment point.

4. Attach the hook of the retaining strap to the attachment point.
5. Tighten the retaining strap.

## Locking the doors and windows in the rear

### General information

In certain situations it may be advisable to secure the rear doors and windows, for instance when transporting children.

### Doors



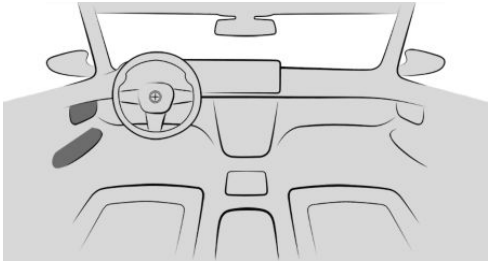
Unlock or lock the safety switch on the rear doors using the integrated key. To lock, turn in the corresponding arrow direction on the door.

The door can now be opened from the outside only.

After locking, make sure that the door cannot be opened from the inside.



## Safety switch for rear



Press the button on the driver's door.

Various functions are locked and cannot be operated in the rear such as the power windows.

# Driving

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

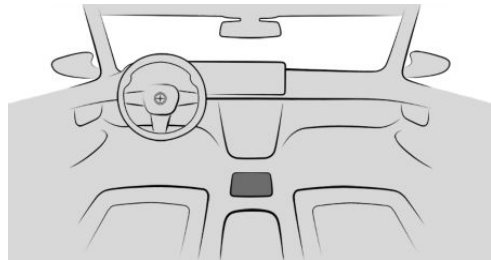
Vehicle equipment, refer to page [8](#).

## Start/Stop button

### Principle

Pressing the Start/Stop button turns drive-ready state on/off.

### Overview



Start/Stop button

### Turning on the drive-ready state

Drive-ready state turns on when the brake pedal is pressed while pushing the Start/Stop button.

Pushing the Start/Stop button again will turn off drive-ready state and turn on standby state.

Drive-ready state cannot be switched on as long as the charging cable is connected.

Additional information:

- ▷ Drive-ready state, refer to page [46](#).
- ▷ Standby state, refer to page [46](#).
- ▷ Charging cable, refer to page [326](#).

### Driving off

1. Close the driver's door.
2. Depress brake pedal.
3. Press the Start/Stop button.
4. Engage the desired selector lever position, e.g., D or R.
5. To drive off, release the brake pedal and press the accelerator pedal.

The parking brake releases automatically when the desired selector lever position is engaged.

If necessary, the combustion engine starts automatically.

### Artificial driving noise

Depending on vehicle equipment and national-market version, Acoustic Pedestrian Protection produces an artificial driving noise on vehicles with electric or electrically-assisted drives.

Additional information:

Acoustic pedestrian protection, refer to page [177](#).

## Functions while driving

### General information

The drive power is a combination of the internal combustion engine and the electric drive. If necessary, charge the high-voltage battery at the same time. The hybrid system starts the combustion engine automatically.

With electric drive, the vehicle is powered by the electric motor.

For electric drive and driving with the combustion engine, the corresponding requirements must be met.

Driving off and accelerating require a lot of energy. To optimize acceleration and to reduce fuel consumption, the electric motor boosts the combustion engine.

The vehicle's maximum speed, capacity to accelerate, and range may vary depending on the high-voltage battery's state of charge.

System performance is reduced if the charge is low. Acceleration capacity may change noticeably.

## Safety information

### **WARNING**

When driving in electric mode, pedestrians and other road users might pay less attention to the vehicle due to the lack of engine noise. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirements

### Electric driving

- ▶ The high-voltage battery's state of charge is sufficiently high.
- ▶ The high-voltage battery's temperature is not too low and too high.
- ▶ Selector lever position D or R engaged.
- ▶ The accelerator pedal is not pressed with too much force.
- ▶ The possible maximum speed for electric drive is not exceeded.

### Automatic starting of the combustion engine while driving

Depending on vehicle configuration, the combustion engine is automatically started when driving under conditions such as the following:

- ▶ When accelerating heavily or on uphill grades.
- ▶ By pressing the accelerator pedal beyond the resistance point at the full throttle position, kickdown.
- ▶ The high-voltage battery's state of charge is too low.
- ▶ The high-voltage battery's temperature is too high or too low.
- ▶ Selector lever position S is engaged.
- ▶ During manual gear-shifting using the shift paddles.
- ▶ For system-related demand from hybrid components.

### Automatic switching-off of the combustion engine while driving

Depending on the driving situation, the combustion engine is shut off if the requirements for electric drive are met.

## Energy recovery

### Principle

With energy recovery, also called recuperation, the electric motor acts as an alternator and converts the vehicle's kinetic energy into electrical energy when braking and coasting.

This energy recovery charges the high-voltage battery. If necessary, this stored electrical energy is output to the electric motor.

### General information

Depending on the M Setup menu settings: The high-voltage battery is charged at different speeds, and the vehicle is decelerated with different forces when coasting.

## Setting Description

|       |                                      |
|-------|--------------------------------------|
| "MIN" | Setting for low energy recovery.     |
| "MID" | Setting for medium energy recovery.  |
| "MAX" | Setting for maximum energy recovery. |

Energy recovery settings can be configured in the M Setup menu.

Additional information:

M Setup, refer to page 216.

## Functional requirements

Conditions such as the following prerequisites must be met to recover kinetic energy:

- ▷ The vehicle is moving.
- ▷ Selector lever position D/S is set.
- ▷ The high-voltage battery is not fully charged.

## Support from the electric motor

During normal driving, the electric motor assists the combustion engine, depending on the situation.

Accelerating quickly such as when passing requires the maximum available power from the electric motor. To do so, press the accelerator pedal firmly.

## Boost Control function

### Principle

Depending on vehicle equipment, the Boost Control function can be used for upcoming acceleration, for example.

The optimum response characteristics of the drive are shown.

## General information

The Boost Control function is operated using the shift paddles on the steering wheel.

The Boost Control function can be used in the speed range 30 km/h to 150 km/h.

## Functional requirement

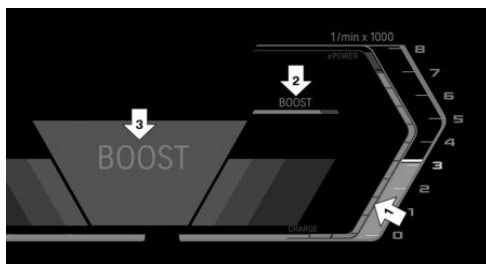
Sporty equipment, e.g., M Sports package.

## Overview



The shift paddles for Boost Control are located on the steering wheel.

## Display in the instrument cluster



- ▷ Arrow 1: Function has been activated.
- ▷ Arrow 2: Function is available as long as the bar with BOOST appears.
- ▷ Arrow 3: Function is being used for maximum acceleration.

## Using the function

1. Pull and hold the left shift paddle until BOOST is displayed.

The function is active.

A countdown is displayed as a bar in the instrument cluster.

2. Before the countdown has finished, depress the accelerator pedal.  
BOOST is displayed on the instrument cluster.

## Stopping and restarting the function

The function is automatically interrupted if the countdown has finished or if the function was used in the acceleration process. Once this function has been stopped, it can only be restarted after waiting 30 seconds.

To restart the countdown, pull and hold the left shift paddle again until the countdown is reset.

## Deactivating the function

Pull and hold the right shift paddle until this display goes out.

# M Steptronic Sport transmission

## General information

The M Steptronic Sport transmission is operated via the selector lever or the two shift paddles on the steering wheel.

The following functions are available:

- ▶ Various shift modes: Drive mode D or Sequential mode S.
- ▶ Low Speed Assistant.
- ▶ Various Drivelogic programs.
- ▶ Launch Control.
- ▶ Upshifting display, Shift lights.

Additional information:

Shift lights, refer to page [152](#).

## Safety information

### **WARNING**

An unsecured vehicle can begin to move and possibly roll away. There is a risk of accident, injury, and property damage. Before leaving your vehicle, secure it against rolling away, e.g., by applying the parking brake.

## Selector lever positions

### D Drive mode

Selector lever position for driving. All gears for forward travel are activated automatically.

### S is Sequential mode

Selector lever position for driving. All gears for forward travel must be shifted manually.

### R is reverse

Engage selector lever position R only when the vehicle is stationary.

### N Neutral

The vehicle can be pushed or coast without using engine power in selector lever position N, e.g., in a tunnel car wash.

### Parking lock, P

Selector lever position, for instance for parking the vehicle. The transmission blocks the drive wheels in selector lever position P.

Engage selector lever position P only when the vehicle is stationary.

Selector lever position P is engaged automatically in situations such as the following:



- ▶ After the drive-ready state or standby state is switched off and selector lever position D/S or R is engaged.
- ▶ After the standby state has been switched off when selector lever position N is engaged.
- ▶ While the vehicle is stationary and selector lever position D/S or R is engaged, the driver's seat belt is unfastened, the driver's door is opened, and the brake pedal is not pressed.

## Engaging a selector lever position

### General information

Depress the brake pedal until ready to drive off, otherwise the vehicle will move when a gear position or reverse gear is engaged.

The engaged selector lever position is displayed in the instrument cluster and on the selector lever.

In certain situations, e.g., to rock free on snow, it is possible to shift between reverse gear and gear position D without depressing the brake.

### Functional requirements

The selector lever will only change from position P to another selector lever position if drive-ready state is on and the brake pedal is depressed.

## Engaging selector lever position D/S, N, R



With the driver's seat belt fastened, pull or push the selector lever in the desired direction, past the resistance point as necessary. The selector lever automatically returns to the center position when released.

## Engaging selector lever position P



Press the button.

The parking brake is applied and the parking lock is engaged.

## Rolling or pushing the vehicle

### General information

In some situations, the vehicle is supposed to coast for a short distance without using engine power, e.g., in a tunnel car wash or when pushing the vehicle.

## Engaging selector lever position N

### NOTICE

Selector lever position P is automatically engaged when standby state is switched off. The wheels are blocked. There is a risk of property damage. Do not switch off standby if the vehicle is meant to coast, e.g., in a tunnel car wash.

1. Turn on the drive-ready state while depressing the brake pedal.
2. If necessary, release the parking brake.
3. If necessary, deactivate Automatic Hold.  
Automatic Hold, refer to page [134](#).
4. If necessary, loosen the belt.
5. If necessary, open the door.
6. Depress brake pedal.
7. Engage selector lever position N.
8. Switch off drive-ready state.

In this way, standby state remains switched on, and a Check Control message is displayed.

The vehicle can roll.

Selector lever position P is engaged automatically after approx. 35 minutes.

If the system is not operational, you may not be able to change the selector lever position.

If necessary, release the parking lock electronically.

Additional information:

Releasing the parking lock electronically, refer to page [130](#).

## Kickdown

Kickdown is used to achieve maximum drive power in Drive mode.

Step on the accelerator pedal beyond the resistance point at the full throttle position.

## Drive mode D

### Principle

In Drive mode, all forward gears are automatically changed.

### Activating Drive mode



Push the selector lever out of the center position in the D/S direction.

Drive mode is activated. The engaged gear is shown on the instrument cluster along with a D, e.g., D1.

### Deactivating Drive mode

Push the selector lever out of Drive mode in the D/S direction. Sequential mode is activated.

The engaged gear is shown on the instrument cluster, e.g., D1.

## Sequential mode S

### Principle

In Sequential mode, it is possible to shift gears manually using the shift paddles without letting off the gas.

### General information

Shortly before falling below a gear-dependent minimum speed, the transmission is automatically downshifted.

Once the maximum engine speed is attained, upshifting is not automatically performed in



sequential mode and the kickdown is deactivated.

It is also possible to drive off in 2nd gear; for instance, on icy roads.

## Activating sequential mode



Push the selector lever out of Drive mode in the D/S direction.

Sequential mode is activated. The engaged gear is displayed in the instrument cluster, e.g., 1.

## Deactivating sequential mode

Push the selector lever out of the center position in the D/S direction. Drive mode is activated.

The engaged gear is displayed in the instrument cluster along with a D, e.g., 1 D.

## Gear change

### Principle

In sequential mode, gears can be shifted manually using the shift paddles.

The shift paddles on the steering wheel allow you to change gears quickly while keeping both hands on the steering wheel.

### General information

#### Shifting

Gears will only be shifted at appropriate engine and road speeds; for instance, downshifting is not possible if the engine speed is too high.

The lowest possible gear is selected by simultaneously performing a kickdown and using the left shift paddle.

### Temporary sequential mode

After a shift paddle is actuated in Drive mode, the system temporarily switches to sequential mode.

After conservative driving in sequential mode without acceleration or shifting via the shift paddles for a certain amount of time, the transmission switches back to Drive mode.

### Permanent sequential mode

Sequential mode remains permanently active if it was active before the shift paddle was actuated.

### Switching to Drive mode

It is possible to switch to Drive mode as follows: Pull and hold the right shift paddle.

### Switching via the shift paddles



- ▶ Upshift: Pull right shift paddle.
- ▶ Downshift: Pull left shift paddle.

### Display on the selector lever

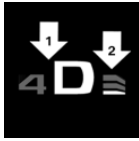
The actually engaged transmission position can deviate from the selector lever position in some situations. The display in the selector lever flashes.

Observe the display in the instrument cluster in these cases.



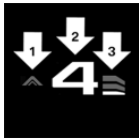
## Displays in the instrument cluster

### Drive mode



- ▷ Engaged gear together with a D, arrow 1.
- ▷ Selected Drivelogic program, arrow 2.

### Sequential mode



- ▷ Gear shift indicator, arrow 1.
- ▷ Engaged gear, arrow 2.
- ▷ Selected Drivelogic program, arrow 3.

### Notice

When the outside temperature is very low, the display may not work. Current driving direction is recognizable at the engaged selector lever position.

## Low Speed Assistant

### Principle

The Low Speed Assistant gives assistance at very low speeds. The vehicle moves at walking speed.

### General information

Use the Low Speed Assistant for maneuvering or in stop-and-go traffic.

The Low Speed Assistant can also be used for rocking the vehicle free in the snow. To do so, shift between reverse and forward gear without depressing the brake pedal.

### Activating

1. Turn on the drive-ready state while depressing the brake pedal.
2. If necessary, release the parking brake.
3. If necessary, deactivate Automatic Hold.

4. Engage selector lever position D/S or R.
5. Release the brake pedal.

In 1st and 2nd gear and in reverse, the vehicle rolls at minimum speed.

### Deactivating

Decelerate the vehicle to a stop.

## Drivelogic

### Principle

Drivelogic changes the gear-shifting characteristics of the M Steptronic Sport transmission. For example, the shifting points are changed in Drive mode and the shifting times in sequential mode.

### General information

Three Drivelogic programs are available.

Whenever you switch between Sequential mode and Drive mode, the last Drivelogic program selected is enabled.

If drive-ready state is switched on after the vehicle has been idle, Drivelogic program D1 is enabled in Drive mode.

### Functional requirement

The vehicle must be in one of the following hybrid modes:

- ▷ "HYBRID"
- ▷ Depending on vehicle equipment: "DYNAMIC"
- ▷ Depending on vehicle equipment: "DYNAMIC PLUS"

## Drivelogic programs

| Program      | Drivelogic requirements          |
|--------------|----------------------------------|
| "COMFORT"    | Comfortable shifting operations. |
| "SPORT"      | Sporty gear shifting.            |
| "SPORT PLUS" | Performance-based gear shifting. |

## Selecting a Drivelogic program

### Via iDrive

The desired Drivelogic program can be configured for buttons M1, M2, or M Setup.

-  Press the button.
- "M1 CONFIGURATION" or "M2 CONFIGURATION"
- "Drivelogic"
- Select the desired Drivelogic mode.  
The setting is immediately applied with active M1 or M2 configuration.

To activate the desired configuration with the selected settings, press the corresponding button on the steering wheel:



Additional information:

M Setup menu, refer to page [216](#).

## Display in the instrument cluster



The Drivelogic program selected corresponds to the number of illuminated fields.

## Releasing the parking lock electronically

### General information

Release the parking lock electronically, e.g., to maneuver the vehicle out of a hazardous area in the event of a malfunction.

Unlocking is possible, if the starter can crank the engine.

Before releasing the parking lock, set the parking brake in order to prevent the vehicle from rolling away.

### Engaging selector lever position N

- Depress and hold the brake pedal.
- Switch on the drive-ready state.
- Push the selector lever to position N until selector lever position N appears on the instrument cluster.
- Open the door.  
An appropriate Check Control message is displayed.
- Maneuver the vehicle from the hazardous area and secure it against rolling away.

Additional information:

Tow-starting/towing, refer to page [387](#).

## Launch Control

### Principle

In dry ambient conditions, Launch Control ensures optimal acceleration on roads with good traction by temporarily providing higher system power.

### General information

The use of Launch Control causes premature component wear since this function represents a very heavy load for the vehicle.

Depending on vehicle equipment, increased drive power is provided when driving off with Launch Control.

Do not steer the steering wheel when driving off with Launch Control.

Do not use Launch Control during the break-in.

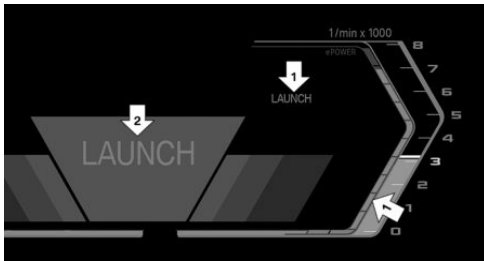
Additional information:

Break-in, refer to page 316.

## Functional requirements

Launch Control is available when the engine is at operating temperature. The engine is at operating temperature after an uninterrupted trip of at least 6 miles/10 km.

## Display in the instrument cluster



- Arrows 1: Function has been activated.
- Arrow 2: Function is being used for maximum acceleration.

## Starting with launch control

### M Steptronic Sport transmission

1. Turn on the drive-ready state.
2. Deactivate the Dynamic Stability Control.  
Dynamic Stability Control, refer to page 221.
3. Depress the brake pedal firmly with the left foot.
4. Press and hold down the accelerator pedal beyond the resistance point at the full throttle position, kickdown.

A specific display is activated on the instrument cluster.

Keep the accelerator pedal in this position.

5. The starting engine speed adjusts. With sufficiently high starting torque, the Launch Control is active.

Release the brake pedal. The vehicle accelerates.

Upshifting is performed automatically as long as the specific display is active and the accelerator pedal is not released.

## Repeated use during a trip

After Launch Control has been used, it is necessary to drive a certain distance before Launch Control can be used again.

## After using Launch Control

To support driving stability, reactivate Dynamic Stability Control as soon as possible.

## System limits

An experienced driver may be able to achieve better acceleration values in DSC OFF mode.

## Drive-off assistant

### Principle

On inclines, in selector lever position D, S, or R, this system prevents the vehicle from rolling opposite the set driving direction and provides drive-off support.

### Driving off

Press the accelerator pedal to drive off.

Depending on the vehicle load or driving situation, the vehicle may roll back slightly.

If necessary, activate Automatic Hold and also apply the parking brake via iDrive, as applicable. The parking brake is released automatically when you drive off.



Additional information:

- ▷ Automatic Hold, refer to page 134.
- ▷ Parking brake, refer to page 132.

## Parking brake

### Principle

The parking brake is used to prevent the vehicle from rolling away when it is parked.

### Safety information

#### **WARNING**

An unsecured vehicle can begin to move and possibly roll away. There is a risk of accident, injury, and property damage. Before leaving the vehicle, secure the vehicle against rolling away.

In order to ensure that the vehicle is secured against rolling away, observe the following:

- ▷ Set the parking brake.
- ▷ Make sure that selector lever position P is engaged.
- ▷ On uphill grades or on downhill slopes, turn the front wheels in the direction of the curb.
- ▷ On uphill grades or on downhill slopes, also secure the vehicle, for instance with a wheel chock.

#### **WARNING**

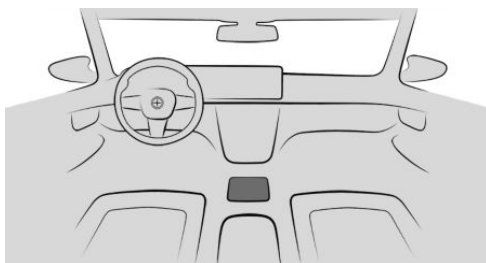
Unattended children or animals in the vehicle can cause the vehicle to move and endanger themselves and traffic, for example, due to the following actions:

- ▷ Establishing standby.
- ▷ Releasing the parking brake.
- ▷ Opening and closing the doors or windows.

- ▷ Engaging selector lever position N.
- ▷ Using vehicle equipment.

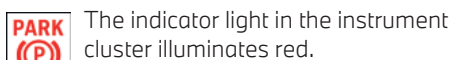
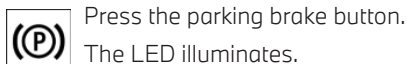
There is a risk of accident, injury, and property damage. Do not leave children or animals unattended in the vehicle. Take the vehicle key with you when exiting and lock the vehicle.

### Overview



### Setting the parking brake

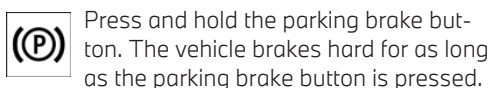
#### With a stationary vehicle



The parking brake is applied and parking lock is engaged.

### While driving

Use while driving serves as an emergency braking function.





The indicator light in the instrument cluster illuminates red, a signal sounds, and the brake lights illuminate.

A Check Control message is displayed.

The parking brake is applied and the parking lock engaged when the vehicle is stationary.

## Engaging the parking brake automatically

In some situations, the parking brake is engaged automatically, e.g., through Automatic Hold.

Additionally, the system can be set to automatically engaging the parking brake when the drive-ready state is turned off.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Drivetrain and chassis"
5. "Parking brake"
6. Select the desired setting.

In selector lever position N, the parking brake will not be engaged automatically.

## Releasing the parking brake

### Releasing the parking brake manually

1. Turn on the drive-ready state.

2.  Push the parking brake button while pressing the brake pedal.

The LED and the indicator light go out.

The parking brake is released.

The parking lock remains engaged until a gear position is selected.

### Releasing the parking brake automatically

The parking brake releases automatically in the following situations:

- ▶ When switching from selector lever position P to another selector lever position.
- ▶ When driving off.

The LED and the indicator light go out.

## Using the parking brake via iDrive

The parking brake can be engaged or disengaged via iDrive. When the parking brake is operated via iDrive, the current selector lever position remains engaged. Additionally, further information is displayed.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Drivetrain and chassis"
5. "Parking brake"
6. Select the desired setting.

## Malfunction

If the parking brake fails or malfunctions, secure the vehicle so that it does not roll away before you exit.

A Check Control message is displayed.

Secure the vehicle against rolling away, for instance with a wheel chock, after getting out of the vehicle.

## After a power interruption

To reestablish parking brake operability after a power interruption, an initialization may be required.

1. Turn on standby state.

2.  Press the parking brake button.

3.  Press the parking brake button again after 2 seconds.

The Check Control messages for the parking brake go out.

Possible function-related noises are normal.



The indicator light indicates that the parking brake is ready for operation again.

## Automatic Hold

### Principle

Automatic Hold provides assistance by automatically applying and releasing the brake, e.g., when driving off on inclines or in stop-and-go traffic.

When a gear position is engaged, the vehicle is automatically held in place when it is stationary.

### General information

The parking brake is automatically engaged under the following conditions:

- ▷ If drive-ready state is turned off.
- ▷ The driver's door is open for more than one second and no pedal is pressed during this time.
- ▷ If the parking brake is used to brake the vehicle to a stop while driving.

In selector lever position N, Automatic Hold is temporarily deactivated.

### Safety information

#### WARNING

An unsecured vehicle can begin to move and possibly roll away. There is a risk of accident, injury, and property damage. Before leaving the vehicle, secure the vehicle against rolling away.

In order to ensure that the vehicle is secured against rolling away, observe the following:

- ▷ Set the parking brake.
- ▷ Make sure that selector lever position P is engaged.
- ▷ On uphill grades or on downhill slopes, turn the front wheels in the direction of the curb.
- ▷ On uphill grades or on downhill slopes, also secure the vehicle, for instance with a wheel chock.

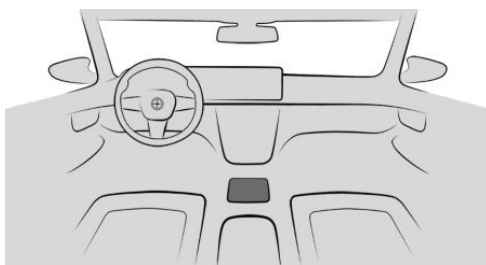
#### WARNING

Unattended children or animals in the vehicle can cause the vehicle to move and endanger themselves and traffic, for example, due to the following actions:

- ▷ Establishing standby.
- ▷ Releasing the parking brake.
- ▷ Opening and closing the doors or windows.
- ▷ Engaging selector lever position N.
- ▷ Using vehicle equipment.

There is a risk of accident, injury, and property damage. Do not leave children or animals unattended in the vehicle. Take the vehicle key with you when exiting and lock the vehicle.

### Overview



AUTO H

Automatic Hold

## Functional requirement

Drive-ready state is switched on.

## Activating Automatic Hold



Press the button.

The LED illuminates.



The indicator light illuminates.

Automatic Hold is activated.

## Automatic Hold holding the vehicle

If Automatic Hold is activated and the driver's door is closed, the vehicle is automatically secured to prevent it from rolling away after stopping.



As soon as Automatic Hold secures the vehicle to prevent it from rolling away, the indicator light for the parking brake illuminates green.

Your foot can be taken off the brake pedal.

## Automatic parking brake application

The parking brake is automatically set if drive-ready state is switched off while the vehicle is being held by Automatic Hold or if the vehicle is exited.



The indicator light changes from green to red.

The parking brake is not set automatically if the drive-ready state was switched off while the vehicle was coasting. Automatic Hold is temporarily deactivated in this case.

## Driving off

Press the accelerator pedal to drive off.

The brake is released automatically and the indicator light of the parking brake is no longer illuminated.

The vehicle may roll back slightly when driving off, depending on the load.

Drive off quickly to prevent the vehicle from rolling backward when driving off.

If necessary, also apply the parking brake via iDrive. The parking brake is released automatically when you drive off.

Additional information:

Parking brake, refer to page [132](#).

## Deactivate Automatic Hold



Press the button.

The LED goes out.



The indicator light goes out.

Automatic Hold is deactivated.

If the vehicle is being held by Automatic Hold, also press the brake pedal when deactivating.

## M Hybrid

### Principle

The behavior of the hybrid system can be adjusted.

### General information

Different settings for the hybrid system are provided.

| Mode       | Behavior of hybrid system                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| "HYBRID"   | The vehicle is moved in hybrid mode, i.e., it is driven by a combination of combustion engine and electric motor.       |
| "ELECTRIC" | The vehicle is driven electrically.<br><br>The combustion engine is only started in certain situations, e.g., kickdown. |

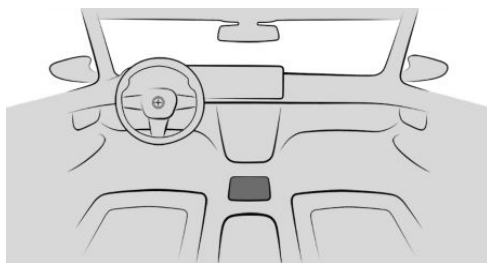
| Mode           | Behavior of hybrid system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "eCONTROL"     | <p>Hybrid mode to prepare the vehicle for maximum performance, e.g., for driving on a racetrack.</p> <p>With hybrid drive, the vehicle is driven with reduced overall power. The temperature of the combustion engine and high-voltage battery as well as the high-voltage battery charge are adjusted for high-performance driving. A bar in the M Hybrid menu shows the progress. A longer driving distance may be necessary. The bar also shows the potential power of the drive for other drive settings.</p> <p>The combustion engine is not shut off in this mode.</p> |
| "DYNAMIC"      | <p>Depending on vehicle equipment: Hybrid mode for driving on a race track.</p> <p>The vehicle is driven in hybrid mode.</p> <p>This mode is designed for driving several laps with balanced system performance.</p> <p>The combustion engine is not shut off in this mode.</p>                                                                                                                                                                                                                                                                                              |
| "DYNAMIC PLUS" | <p>Depending on vehicle equipment: Hybrid mode for driving on a race track.</p> <p>The vehicle is driven in hybrid drive.</p> <p>This mode is designed for short drives with full system performance.</p> <p>The combustion engine is not shut off in this mode.</p>                                                                                                                                                                                                                                                                                                         |

Additional information:

Driving on a racetrack, refer to page [320](#).

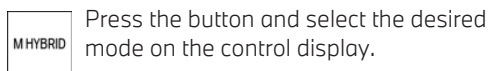
## Overview

### Button in the vehicle



## Selecting a mode

### Using the button



Press the button and select the desired mode on the control display.

### Via M1/M2

The desired mode can be configured for the M1 or M2 button on the steering wheel.

Additional information:

M Setup, refer to page [216](#).

## Drive system

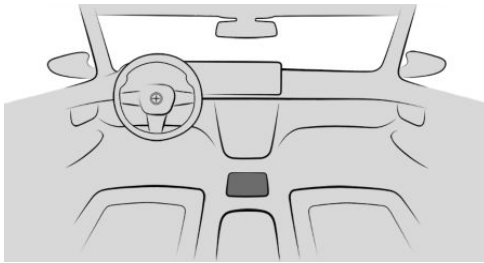
### Principle

The drive's response to movement of the accelerator pedal can be adjusted. The intensity of the drive acoustics changes depending on the program.



## Overview

### Button in the vehicle



### Programs

| Program      | Response characteristics               |
|--------------|----------------------------------------|
| "COMFORT"    | Comfortable.                           |
| "SPORT"      | Sporty, dynamic.                       |
| "SPORT PLUS" | Spontaneous, direct. Maximum dynamics. |

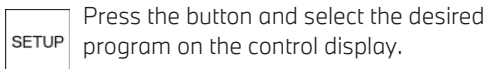
When Sound Control is on, the SPORT and SPORT PLUS programs change the intensity of the drive acoustics.

Additional information:

Sound control, refer to page [137](#).

### Selecting a program

#### Using the button



Press the button and select the desired program on the control display.

### Via iDrive

Drive settings can be configured in M Setup.

Additional information:

M Setup, refer to page [216](#).

## Display in the instrument cluster



When the display for M Setup is activated in the instrument cluster, the selected program is displayed.

Additional information:

Central display area, refer to page [153](#).

## Sound control

### Principle

Sound Control changes the sound characteristics of the exhaust system.

### General information

When Sound Control is turned on, the exhaust system sounds sporty and emotive.

When sound control is switched off, the sound is focused on comfort.

The sound characteristics are changed during the engine warm-up phase.

Additional information:

High-performance drive, refer to page [314](#).

### Activate/deactivate the function

#### Via iDrive

The Sound Control settings can be configured in M Setup.

Additional information:

M Setup, refer to page [216](#).

# Displays

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Instrument cluster

### Principle

The instrument cluster comprises various digital displays, e.g., a speedometer, time, range, temperature as well as indicator and warning lights.

### General information

Some of the displays in the instrument cluster may differ from the illustrations in the Owner's Manual.

The view on the instrument cluster can vary depending on the selected driving mode. The driving mode is set using the M MODE button.

The following M MODE views are available:

- ▷ "ROAD": Standard view of the instrument cluster for comfort-oriented driving. All displays for driver assistance systems and collision warning systems are enabled.
- ▷ "SPORT": M View to assist a sporty driving style. The displays for driver assistance systems and collision warning systems are reduced to a minimum.
- ▷ Depending on the equipment:  
"TRACK": M View for driving on a race track. The driver assistance and collision warning system displays are deactivated.

Additional information:

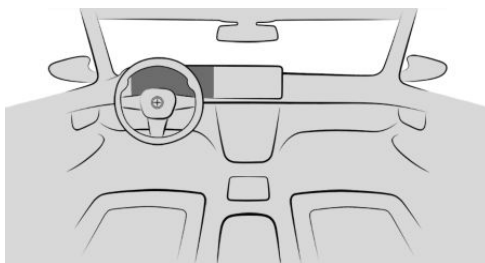
M MODE, refer to page 218.

## Safety information

### WARNING

If the driving information displays on the instrument cluster fail, e.g., the speedometer, do not use the vehicle. There is a risk of accident, injury, and property damage. Immediately park the vehicle in a safe manner. Turning drive-ready state off and on again may correct the malfunction, allowing you to continue driving. If the malfunction cannot be corrected, have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Overview

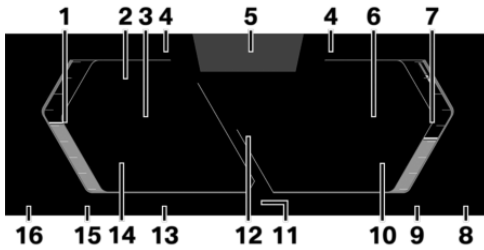


Instrument cluster.

## Display ranges on the instrument cluster

The contents of the instrument cluster are shown using the standard view as an example. This view is displayed in the following driving mode:

"ROAD"



- 1 Speedometer
- 2 Driver assistance systems [227](#)  
Parking assistance systems [253](#)
- 3 Digital speedometer [148](#)
- 4 Shift lights [152](#)
- 5 Driver Attention Camera [215](#)
- 6 M Steptronic Sport transmission: Gear display with Drivelogic [129](#)  
Gear shift indicator [149](#)
- 7 Electric motor power gauge [150](#)  
Tachometer [150](#)
- 8 Outside temperature [151](#)
- 9 Electric range [151](#)
- 10 State of charge indicator [151](#)
- 11 Driving stability control systems [216](#)
- 12 Central display range [153](#)  
Check Control [142](#)  
Selection lists [149](#)
- 13 Speed Limit Info [227](#)  
Speed Limit Assistant [248](#)
- 14 Fuel gauge [157](#)
- 15 Overall range [157](#)
- 16 Time [156](#)

Additional information:

Indicator/warning lights, refer to page [142](#).

## Operating elements on the steering wheel

| Operating element                                                                 | Function                                                                                                                                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Display the menu bar on the instrument cluster.                                                                                                                       |
|  | Turn thumbwheel: Scroll selection up or down.<br>Tilt thumbwheel in corresponding direction: Move selection to left or right.<br>Press thumbwheel: Confirm selection. |

## Settings

Specific displays can be configured individually, e.g., a second actual speed.

1.  Apps menu
2. "Vehicle"
3. "Displays"
4. "Instrument cluster"
5. Select the desired setting.

## Live Vehicle

### Principle

Live Vehicle is a virtual representation of your vehicle with different information, e.g., vehicle status or current driving condition.

### General information

Corresponding information is shown on the control display depending on the driving situation. Fault statuses are not taken into account. Adaptive content or various static content can be selected.

## Adaptive content

The following content is displayed in alternating order and, if necessary, depending on the selected drive mode:

- ▷ Vehicle status, refer to page 158.
- ▷ Current driving condition, refer to page 158.
- ▷ Sport displays, refer to page 159.
- ▷ Trip data, refer to page 154.

## Static information

The following information may be shown permanently on the control display regardless of the driving situation and driving mode set.

- ▷ Vehicle status.
- ▷ Trip data.

## Adjusting the display

In the Live Vehicle menu, adaptive content or various static content for the display can be selected on the left-hand side bar:

1.  Apps menu
2. "Vehicle"
3. "Live Vehicle"
4. Select the desired setting.

# BMW Head-up display

## Principle

The Head-up display projects important information, e.g., speed, onto the windshield in the driver's field of view. Information can be recorded without you having to look away from the road.

The steering wheel buttons can be used to configure various views for the Head-up display. More settings can be configured on the control display, e.g., brightness, height, or rotation.

## General information

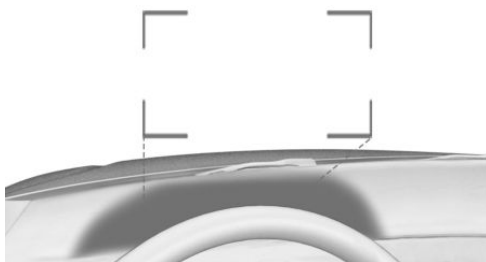
The views on the Head-up display adjust automatically depending on the selected driving mode.

Follow instructions for cleaning the Head-up display in the Vehicle Care chapter.

Additional information:

Caring for special components, refer to page 394.

## Overview



Head-up display views are projected onto the windshield through a protective glass. The protective glass is located between the steering wheel and windshield.

## Displayable information

The following information is displayed on the Head-up display depending on the driving mode selected:

- ▷ Vehicle speed.
- ▷ Navigation instructions.
- ▷ Check Control messages.
- ▷ Shift lights.
- ▷ Tachometer.
- ▷ Power gauge.
- ▷ Selector lever display.
- ▷ Lists and messages.
- ▷ Driver assistance systems.

Some of this information is only displayed briefly as needed.

## Configuring a view

The views for the Head-up display can be set independently of the display on the instrument cluster, e.g., a reduced view.

1.  Press the button on the steering wheel.  
A menu bar is displayed in the instrument cluster.
2. "HEAD-UP"  
Select the menu by tilting the thumbwheel on the steering wheel where applicable.
3. Select the desired setting using the thumbwheel on the steering wheel.

## Turning the Head-up display on/off

1.  Apps menu
2. "Vehicle"
3. "Displays"
4. "Head-up display"
5. "Head-up display"

In addition, the Head-up display can also be turned on/off via quick access:

1. Swipe from top to bottom on the control display.
2. "Head-up display"

## Settings

Various settings can be configured for the Head-up display, e.g., height, brightness, or rotation. In addition, individual displays in the Head-up display can be set up separately such as for Driver Assistance.

1.  Apps menu
2. "Vehicle"
3. "Displays"
4. "Head-up display"
5. Select the desired setting.

## Setting the view

Additional settings can be applied depending on the driving mode selected and the Head-up display configuration.

1. "MENU"
2. "Vehicle"
3. "Displays"
4. "Head-up display"
5. Select the desired setting.

## Visibility of the display

The visibility of the displays in the Head-up display is influenced by the following factors:

- ▷ Seat position.
- ▷ Objects on the Head-up display's protective glass.
- ▷ Dust or dirt on the Head-up display's protective glass.
- ▷ Windshield dirty on inside or outside.
- ▷ Sunglasses with certain polarization filters.
- ▷ Wet road.
- ▷ Unfavorable light conditions.

If the image is distorted, have the basic settings checked by an authorized service center or another qualified service center or repair shop.

## Special windshield

The windshield is part of the system.

The shape and coating of the special windshield enable the system to function.

If damaged, have the special windshield replaced by an authorized service center or another qualified service center or repair shop.

## Check Control

### Principle

The Check Control system monitors functions in the vehicle and notifies you of faults in the monitored systems.

A Check Control message is displayed as a combination of indicator lights or warning lights and text messages on the instrument cluster and, if applicable, on the Head-up display. In addition, an acoustic signal may sound and a text message may appear on the control display.

Some Check Control messages are hidden automatically after approx. 20 seconds, but they will be stored. Stored Check Control messages can be displayed on the control display. Urgent Check Control messages are permanently displayed but may be hidden temporarily.

### Hiding Check Control messages

Permanently displayed Check Control messages can be hidden temporarily. These messages are automatically displayed again after approx. 8 seconds.

◀ An arrow icon next to the Check Control message indicates whether the Check Control message can be hidden.



To hide Check Control messages, tilt the thumbwheel on the steering wheel to the left.

### Displaying stored Check Control messages

Additional information such as the cause of a fault or the required action can be called up via Check Control.

Depending on the Check Control message, further help can be selected.

1. ■■ Apps menu
2. "Vehicle"

3. "Vehicle status"
4. "Check Control"
5. Select the desired text message.

### Display

A Check Control message is displayed in the instrument cluster as a text message with an icon.

For urgent messages, an added text is automatically displayed on the control display.

If several faults occur at once, the messages are displayed consecutively.

Certain messages displayed while driving are displayed again after drive-ready state is switched off.



Icons in the instrument cluster indicate an active or saved Check Control message.



## Indicator lights and warning lights

### Principle

The indicator lights and the warning lights on the instrument cluster show the status of some functions in the vehicle. The indicator lights and warning lights indicate faults in monitored systems.

### General information

Indicator lights and warning lights can illuminate in a variety of combinations and colors.

Several of the lights are checked for proper functioning and illuminate temporarily when drive-ready state is turned on.

## Red lights

### Seat belt reminder



Seat belt on the driver's seat is not buckled.

Additional information:

Seat belt reminder, refer to page [107](#).

### Airbag system



Warning light illuminates briefly: Indicates that the entire airbag system and seat belt tensioners are operational when drive-ready state is switched on.

Warning light does not illuminate or illuminates continuously: The airbag system or the seat belt tensioners may not be operational. Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

Additional information:

Airbags, refer to page [173](#).

### Parking brake



The parking brake is set.

Additional information:

Parking brake, refer to page [132](#).

### Brake system



The brake pads are worn or there is another issue with the brake system.



The braking assistance may not be operational. A higher pedal force may be required for braking.

Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

## System fault



Contact an authorized service center or another qualified service center or repair shop.

## Emergency Stop Assistant



The Emergency Stop Assistant is triggered.

Additional information:

Emergency Stop Assistant, refer to page [206](#).

## Risk of collision



Warning light illuminates or flashes in conjunction with an acoustic signal if there is risk of imminent collision.

Additional information:

Forward Collision Mitigation, refer to page [179](#).

## Pedestrian Warning



Warning light illuminates: Risk of collision with a person, e.g., a pedestrian or cyclist, has been detected. Increased awareness is required.

Warning light flashes and acoustic signal sounds: Risk of imminent collision with a person, e.g., a pedestrian or cyclist, has been detected. Immediately initiate braking or an evasive maneuver.

Additional information:

Warning function for pedestrians, refer to page [185](#).

## Forward Collision Warning



Warning light illuminates: Risk of collision, e.g., with a vehicle, has been detected. Increased awareness is required.

Warning light flashes and a signal sounds: Risk of imminent collision with a vehicle detected.



Immediately initiate braking or an evasive maneuver.

Additional information:

Warning function in rear-end collision situations, refer to page [182](#).

### Intersection Warning: Vehicle detected from the right



Warning light illuminates: Risk of collision with vehicle crossing from the right detected. Increased awareness is required.

Warning light flashes and a signal sounds: Risk of imminent collision with a crossing vehicle detected. Immediately initiate braking or an evasive maneuver.

Additional information:

Warning function at intersections, refer to page [186](#).

### Intersection Warning: Vehicle detected from the left



Warning light illuminates: Risk of collision with vehicle crossing from the left detected. Increased awareness is required.

Warning light flashes and a signal sounds: Risk of imminent collision with a crossing vehicle detected. Immediately initiate braking or an evasive maneuver.

Additional information:

Warning function at intersections, refer to page [186](#).

### Distance Control



Warning light flashes and acoustic signal sounds: Brake and evade as necessary.

Additional information:

Distance Control, refer to page [233](#).

### Assisted Driving Mode



Warning light flashes and acoustic signal sounds:

The system is switched off or will be interrupted very soon.

Warning light illuminates and acoustic signal sounds:

The driver's line of sight is not directed at the surrounding traffic. 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.

Keep an eye on the surrounding traffic.

Additional information:

Assisted Driving Mode, refer to page [239](#).

### Assisted Driving Mode: The driver's hands are not currently gripping the steering wheel



Warning light illuminates and acoustic signal sounds:

The driver's hands are not currently gripping the steering wheel or, depending on vehicle equipment and national-market version, the driver is not looking at the surrounding traffic. 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.

Immediately grasp the steering wheel with your hands and pay attention to the surrounding traffic.

Additional information:

Assisted Driving Mode, refer to page [239](#).



## Yellow lights

### Antilock Braking System



The system may not be operational. The Antilock Braking System is not available.



The ability to steer may be restricted during full braking.

Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

Additional information:

Antilock Braking System, refer to page [216](#).

### Assisted Driving Mode



Warning light illuminates and acoustic signal sounds: A system interruption is imminent.

Warning light flashes: A lane boundary has been crossed.

Additional information:

Assisted Driving Mode, refer to page [239](#).

### Assisted Driving Mode: The driver's hands are not currently gripping the steering wheel



The driver's hands are not currently gripping the steering wheel. The system is still active.

Grab the steering wheel with your hands.

Additional information:

Assisted Driving Mode, refer to page [239](#).

### Dynamic Stability Control is on, has malfunctioned, or is being initialized



Indicator light flashes: Dynamic Stability Control is regulating the driving power and the brake power. The vehicle is stabilized. Reduce the vehicle speed and adjust your driving style to the road conditions.

Indicator light illuminates: Dynamic Stability Control has malfunctioned or is initializing. Driving stabilization is restricted or has failed.

If the indicator light illuminates continuously, have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

Additional information:

Dynamic Stability Control, refer to page [221](#).

### Dynamic Stability Control deactivated



The Dynamic Stability Control is deactivated or the M Dynamic Mode is activated.

Additional information:

▷ Dynamic Stability Control, refer to page [221](#).

▷ M Dynamic Mode, refer to page [223](#).

### Flat tire monitor



Warning light illuminates: Flat tire or tire pressure loss has been detected.

Reduce your speed and stop cautiously. Avoid sudden braking and steering maneuvers.

Additional information:

Flat tire monitor, refer to page [356](#).

### Tire Pressure Monitor



Warning light illuminates: Flat tire or tire pressure loss has been detected.

Follow the information in the Check Control message.

Warning light flashes then illuminates continuously: Flat tires or tire pressure losses cannot be detected.

▷ Fault caused by systems or devices with the same radio frequency: After leaving the



area of the interference, the system automatically becomes active again.

- ▷ In the case of tires with special approval: The Tire Pressure Monitor was unable to complete the reset. Reset the system again.
- ▷ Wheel without wheel electronics installed: Have it checked by an authorized service center or another qualified service center or repair shop as needed.
- ▷ Malfunction: Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

Additional information:

Tire Pressure Monitor, refer to page [351](#).

## Steering system



The steering system may not be operational.

Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Pollutant emissions



- ▷ The warning light illuminates:

The exhaust gas quality is declining, e.g., because the fuel filler cap is fitted incorrectly.

- ▷ The warning light flashes under certain circumstances:  
This indicates that there is excessive misfiring in the engine.

Reduce the vehicle speed and have the system checked immediately by an authorized service center or another qualified service center or repair shop. Otherwise, severe engine misfires will very quickly cause serious damage to emissions-related components, especially the catalytic converter.

Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

Additional information:

Diagnostic socket, refer to page [378](#).

## M xDrive



M xDrive may not be operational.

Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

Additional information:

M xDrive, refer to page [224](#).

## Green lights

### Turn signal



Turn signal is on.

Unusually rapid flashing of the indicator light indicates that a turn signal bulb has failed.

Additional information:

Turn signal, refer to page [161](#).

### Parking lights



Parking lights are switched on.

Additional information:

Parking lights, low-beam headlights, refer to page [164](#).

### Low-beam headlights



Low-beam headlights are switched on.

Additional information:

Parking lights, low-beam headlights, refer to page [164](#).

## High Beam Assistant



Low-beam headlights are switched on and the High Beam Assistant is activated.

High-beam headlights are switched on and off automatically depending on the traffic situation.

Additional information:

High Beam Assistant, refer to page [161](#).

## Lane Departure Warning



Depending on vehicle equipment and national-market version:

Indicator light flashes: The system actively issues a warning. If necessary, the system performs a steering intervention.

Additional information:

Lane Departure Warning, refer to page [191](#).

## Automatic Hold is activated



After stopping, Automatic Hold automatically secures the vehicle to prevent it from rolling away.

Additional information:

Automatic Hold, refer to page [134](#).

## Automatic Hold holding the vehicle



Automatic Hold secures the stopped vehicle to prevent it from rolling away, e.g., when stopped at a traffic light.

Additional information:

Automatic Hold, refer to page [134](#).

## Cruise Control



The system is active.

Additional information:

Cruise Control, refer to page [231](#).

## Distance Control



Indicator light illuminates: Vehicle has been detected ahead of you. The vehicle icon goes out if no vehicle has been detected ahead of you.

Indicator light flashes: Preceding vehicle has driven off.

Additional information:

Distance Control, refer to page [233](#).

## Speed Limit Assistant



The detected speed limit can be applied with the SET button. As soon as the speed limit has been applied, a green checkmark is displayed.

Additional information:

Speed Limit Assistant, refer to page [248](#).

## Assisted Driving Mode



The system supports the driver in keeping the vehicle within the lane.

Additional information:

Assisted Driving Mode, refer to page [239](#).

## Lane Change Assistant: Lane change in progress



Arrow icon for lane change green: The system carries out a lane change.

Additional information:

▶ Lane Change Assistant, refer to page [243](#).

## Lane Change Assistant: Lane change not possible



Gray line for lane boundary on the appropriate side: System detected a lane change request. Lane change not currently possible.

Additional information:



Lane Change Assistant, refer to page [243](#).

## Assisted Driving Mode Plus



The system is active.

Additional information:

Assisted Driving Mode Plus, refer to page [246](#).

## Blue lights

### High-beam headlights



High-beam headlights have been switched on.

Additional information:

High-beam headlights, refer to page [161](#).

### High Beam Assistant



High-beam headlights are switched on via the High Beam Assistant.

Additional information:

High Beam Assistant, refer to page [161](#).

## Gray lights

### Seat belt reminder



Seat belt on the passenger seat or another seat in the vehicle is not buckled.

Additional information:

Seat belts, refer to page [105](#).

### Distance Control



Indicator light flashes: Conditions are not adequate for the system to work.

The system was deactivated but applies the brakes until you actively resume control by pressing on the brake pedal or accelerator pedal.

Additional information:

Distance Control, refer to page [233](#).

## Assisted Driving Mode



The system is on standby and does not manipulate steering movements.

System activates automatically as soon as all function conditions are fulfilled.

Additional information:

Assisted Driving Mode, refer to page [239](#).

## White lights

### Cruise Control with Distance Control



No Distance Control because accelerator pedal is being pressed.

Additional information:

Distance Control, refer to page [233](#).

## Assisted Driving Mode Plus



The system can be used.

Additional information:

Assisted Driving Mode Plus, refer to page [246](#).

## Digital tachometer

### General information

The digital speedometer is permanently displayed in all driving modes. The speed currently driven is displayed.

### Adjusting the unit

Depending on the national-market version, it may be possible to set the unit for the digital tachometer.

1. Apps menu
2. "All apps"

3. "System settings"
4. "Units"
5. "Distance"
6. Select the desired setting.

## Selection lists

### Principle

Selection lists, e.g., entertainment sources, are shown on the Head-up display or on the instrument cluster, depending on vehicle equipment and settings. Lists can be displayed and used for certain functions as necessary:

- ▶ Entertainment source.
- ▶ Current audio source.
- ▶ List of most recent telephone calls.

If necessary, the corresponding menu will open on the control display.

### Displaying and using the list

The selection lists can be displayed and operated using the operating elements on the steering wheel.

#### Operating elements

#### Function



Change the entertainment source.  
Pressing the button again will close the currently displayed list.



Show list of most recent telephone calls.



Turn the thumbwheel: Display the list for currently selected entertainment source or scroll up or down in the list.  
Tilt thumbwheel in corresponding direction: Move selection to left or right.  
Press thumbwheel: Confirm selection.

## Gear shift indicator

### Principle

The shift point indicator recommends the gear that best suits the current driving situation. Using the optimal gear supports an efficient driving style.

### General information

Depending on vehicle equipment and national-market version, the gear shift indicator is active in sequential mode of the M Steptronic Sport transmission. Suggestions for consumption-optimized shifting are displayed.

### Display

#### Icon

#### Description



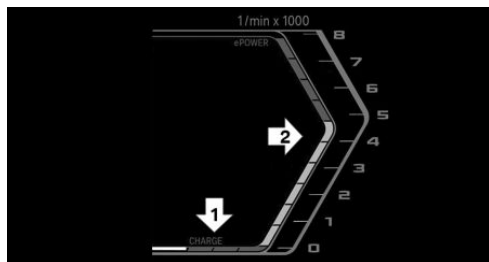
Shift up to the most fuel efficient gear.

# Power gauge for electric motor

## Principle

The power gauge indicates the current electric drive power as a percentage.

## Display



Arrow 1: Display for energy recovery, e.g., during deceleration.

Arrow 2: Range for electric driving.

The electric driving range is variable and may change depending on the driving situation.

## Reduced drive power

The available power may be reduced due to certain factors. The power gauge is automatically adjusted accordingly.

In addition, the icons in the power gauge indicate a reduced drive power:

| Icon | Description                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------|
|      | Blue icon: Cold drivetrain.                                                                                                        |
|      | White icon: Increased drive system temperature, for instance due to sustained or high power demand when driving on mountain roads. |
|      | System-related functional limitation.<br>A Check Control message is displayed in addition where applicable.                        |

## Tachometer

### General information

The engine has a permissible rotational speed range. Excessive speeds are indicated by a yellow prewarning field and a red warning field. The permissible speed increases as the engine oil temperature increases.

Always avoid RPM in the red warning field. In this range, the fuel supply is reduced to protect the engine.

### Display

The tachometer display changes depending on the selected driving mode.

### Reduced rotational speed range

The available rotational speed range may be reduced due to certain factors such as a cold drive system. The tachometer display is automatically adjusted depending on the available rotational speed range.

| Icon | Description                                      |
|------|--------------------------------------------------|
|      | Power is reduced while the vehicle is broken in. |



## Standby state and drive-ready state

OFF is displayed in the instrument cluster. Drive-ready state is turned off and standby state turned on.

When the drive-ready state is switched on, READY is displayed in the instrument cluster. If necessary, the combustion engine starts automatically.

Additional information:

Operating state of the vehicle, refer to page 44.

## Charge state indicator and electric range

### Principle

The charge state indicator provides information about the battery charge and electric range on the instrument cluster.

### General information

Various factors are taken into account when calculating the electric range. The electric range value is adapted dynamically.

The following factors, for example, are taken into account when calculating the range:

- ▶ Automatic climate control settings.
- ▶ Driving style.
- ▶ Climate conditions.
- ▶ Vehicle load.

The total range is the electric range together with the combustion engine range.

Additional information:

Fuel gauge and total range, refer to page 157.

## Safety information

### WARNING

Even when it is indicated that the high-voltage battery is discharged, the high-voltage system is always still under high voltage. There is a risk of injury, danger to life, and risk of property damage. Do not touch or change live parts, e.g., orange high-voltage cables, even when the batteries are discharged.

### Display

The display indicates that the high-voltage battery is almost fully discharged or the electric drive is currently not available.



If this icon is displayed, the electric drive is not available because the high-voltage battery is too cold or too warm. A Check Control message is displayed where applicable.

## Outside temperature

### General information

If the indicator drops to +37°F/+3°C or lower, a signal sounds.

A Check Control message is displayed.

There is an increased risk of ice on roads.

When the vehicle is stationary or at low speed, the temperature displayed may differ slightly from the actual outside temperature due to external environmental influences.

## Safety information

### WARNING

Even at temperatures above +37°F/+3°C there is a risk of icy roads, for instance on bridges or shady sections of the road. There is a risk of accident, injury, and property damage. Modify your driving style to the weather conditions at low temperatures.

## Charging screen

### Principle

The charging screen displays information about the charging process in the instrument cluster.

### General information

Some of the displays in the instrument cluster may differ from the illustrations in the Owner's Manual.

When the vehicle is locked, the most important information is displayed for a short period of time.

Display charging screen again:



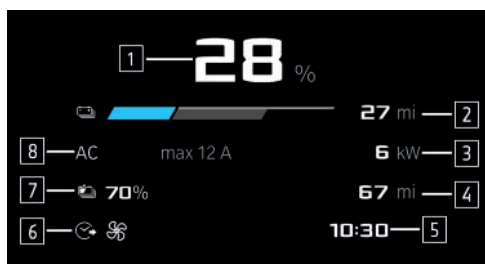
With the charging cable plugged in, press the button on the vehicle key.

The function is not available for the first 10 seconds after locking.

Additional information:

Charge vehicle, refer to page [324](#).

## Overview



- 1 Current state of charge
- 2 Current range
- 3 Current charging capacity [334](#)
- 4 Range upon reaching the charging target
- 5 Set departure time [335](#)
- 6 Departure air conditioning [335](#)
- 7 Charge target set [334](#)
- 8 Set or maximum current limit [324](#)

## Shift lights

### Principle

Shift lights indicate the suitable upshift point at which optimal acceleration can be achieved.

### General information

Successive fields illuminating yellow indicate the upcoming shift point.

Shift when all fields illuminate red at the latest.

When the maximum rotational speed is reached, the entire display flashes and the fuel supply is interrupted in order to protect the engine.

### Functional requirement

If the vehicle is equipped with an M Steptronic Sport transmission, sequential mode must be selected to display the shift lights.



## Shift lights in the instrument cluster



The Shift lights are shown on the instrument cluster in the following situations:

The Head-up display is deactivated or the following drive mode is activated: "ROAD".

## Shift lights in the Head-up display



The shift lights, arrow 1, are displayed above the tachometer, arrow 2.

The shift lights are shown on the Head-up display in the following driving modes:

- ▷ "SPORT"
- ▷ Depending on vehicle equipment: "TRACK"

## Central display range

### Displayable content

The following settings are available depending on the driving mode selected:

- ▷ Reduced display.
- ▷ Trip data, refer to page [154](#).
- ▷ Assisted View, refer to page [155](#).

- ▷ Navigation system route preview.
- ▷ Navigation system map view.
- ▷ M Setup, refer to page [216](#).

Information on the systems configured using the SETUP button.

- ▷ Drive data.
- ▷ Tire data.

Information on wheels and tires can be displayed.

- ▷ Sport displays, refer to page [159](#).
- ▷ G-Meter, refer to page [156](#).
- ▷ Entertainment.
- ▷ Augmented View.

Depending on vehicle equipment, Augmented View on the instrument cluster enables the visualization of driver assistance systems on the actual vehicle's surroundings.

A gray line indicates the recommended minimum distance to the preceding vehicle when speed control systems are deactivated.

- ▷ Android Auto®.

Depending on vehicle equipment and national-market version, select functions of a compatible smartphone can also be displayed, e.g., map views.

Some contents for the central display range can also be configured as a view in the Head-up display.

Additional information:

Head-up display, refer to page [140](#).

Owner's Manual for Navigation, Entertainment, and Communication, refer to page [6](#).

## Configuring the central display range

The content of the central display range on the instrument cluster can be configured individually, for instance the trip data display.

1.  Press the button on the steering wheel.  
A menu bar is displayed in the instrument cluster.
2. "CONTENT"  
Select the menu by tilting the thumbwheel on the steering wheel where applicable.
3. Select the desired setting using the thumbwheel on the steering wheel.

## Trip data

### Principle

The trip data display provides various information about the trip, e.g., average consumption or trip distance.

### General information

The trip data can be displayed on the control display and in the instrument cluster.

Depending on the setting in the Live Vehicle menu, the trip data is shown on the control display.

The values can be displayed and reset depending on different intervals.

### Display on the control display

#### General information

The following trip data is shown on the control display:

- ▷ Configured interval for displaying trip data.
- ▷  Average fuel consumption depending on the configured interval.

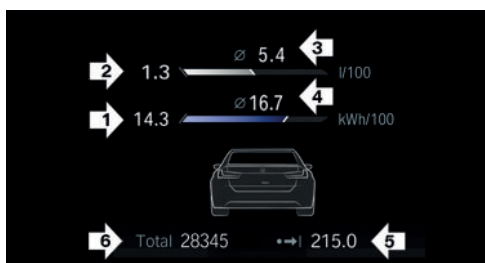
- ▷  Average electrical consumption depending on the configured interval.
- ▷  Travel time depending on the configured interval.
- ▷  Distance traveled depending on the configured interval.
- ▷  Odometer for driving without a combustion engine.

### Displaying trip data continuously

1.  Apps menu
2. "Vehicle"
3. "Live Vehicle"
4. "Vehicle status"

### Display in the instrument cluster

Information on consumption and distance covered can be displayed in the instrument cluster.



- ▷ Current consumption, electric, arrow 1.
- ▷ Current consumption, fuel, arrow 2.
- ▷ Average consumption, fuel, arrow 3.
- ▷ Average consumption, electric, arrow 4.
- ▷ Distance traveled depending on the interval set, arrow 5.
- ▷ Total distance, arrow 6.

### Current consumption

The current consumption display allows you to check the current energy consumption and the current fuel consumption, e.g., to drive efficiently.

## Average consumption

The average power consumption and the average fuel consumption are displayed depending on how the intervals for displaying trip data are configured.

## Adjusting the display of the trip data

The intervals for the display of the trip data in the instrument cluster and on the control display are adjustable.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Time period for trip data"
5. "Values"
6. Select the desired setting:
  - ▶ "Since start of trip": The values are automatically reset approx. four hours after the vehicle has come to a standstill.
  - ▶ "Since last refuel": The values are automatically reset after refueling with a larger quantity of fuel.
  - ▶ "Since last charge": The values are automatically reset after charging.
  - ▶ "Since factory": The values since the time of the factory delivery are displayed.
  - ▶ "Since Individual": The values since the last manual reset are displayed. The values can be reset at any time.

## Resetting average values manually

The following interval can be reset manually at any time:

"Since Individual"

Using the thumbwheel on the steering wheel:

1. Display trip data in the instrument cluster.
2. Press and hold the  thumbwheel on the steering wheel until the values are reset.

Via iDrive:

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Time period for trip data"
5. "Reset Individual"

The average values and counters are reset. Once the average values and counters have been reset, the following interval is automatically activated:

"Since Individual"

## Assisted View

### Principle

With Assisted View, information on driver assistance systems can be displayed on the instrument cluster with a vehicle animation.

Assisted View is available in the following driving mode:

"ROAD"

If the parking assistance system is on, parking and maneuvering information is shown in Assisted View for all driving modes.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of acci-

dent, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

## General

You can configure how Assisted View is displayed on the central display range.

Additional information:

Central display area, refer to page [153](#).

## Temporary display

With the temporary display, Assisted View is always shown when driver assistance systems are active, regardless of how the central display range is configured.

1.  Apps menu
2. "Vehicle"
3. "Displays"
4. "Instrument cluster"
5. "Assisted Driving info will appear in front of other content"

## Display



An example with active Driver Assistance: The indicator and warning lights for the Distance Control and the Lane Change Assistant indicate a lane change to the next lane. At the same time, the lane change to the next lane is shown with animation in the Assisted View.

## System limits

The system's detection capability is limited.

Only objects that are detected by the system are taken into account.

Additional information:

- Cameras, refer to page [39](#).
- Radar sensors, refer to page [40](#).

## G-Meter

### General information

The G-Meter indicates the forces that are applied in longitudinal and transverse direction on the vehicle occupants while driving.

The display can be configured on the central display range of the instrument cluster.

The values are automatically reset whenever you start a new drive.

Additional information:

Central display area, refer to page [153](#).

### Manually resetting G-Meter values

1. Display the G-Meter on the instrument cluster.
2.  Press and hold the thumbwheel on the steering wheel until the values are reset.

## Date and time

Various settings can be applied for the date and time display such as the date format.

Depending on vehicle equipment and national-market version, the time zone can be set or automatic time zone enabled. With automatic

time setting, the time, date and, if necessary, the time zone are updated automatically.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Date and time"
5. Select the desired settings.

## Fuel gauge and total range

### Principle

The fuel gauge shows information on the current fuel tank fill level and the total range on the instrument cluster.

### General information

Vehicle inclination may cause the display to vary.

Additional information:

Refueling, refer to page [339](#).

### Safety information

#### NOTICE

With a range below 30 miles/50 km, the engine may no longer have sufficient fuel. Engine functions are not ensured anymore. There is a risk of property damage. Refuel promptly.

## Display



Current total range, arrow 1.

Current fill level of fuel tank, arrow 2.

Arrow icon for the vehicle side on which the fuel filler flap is located, arrow 3.

### Indicator light in the instrument cluster



The yellow indicator light illuminates, once the fuel reserve is reached.

### Overall range

The total range considers the contents of the fuel tank as well as the electric energy in the high-voltage battery. If the prerequisites for electric driving are not met, the total range considers the content of the fuel tank only.

With a low remaining range, a Check Control message is briefly displayed. A low remaining range means that engine functions cannot always be ensured for sporty driving, e.g., when cornering at speed.

The Check Control message appears continuously below a range of approx. 30 miles/50 km.

Additional information:

Battery charge indicator and electric range, refer to page [151](#).

## Setting the units of measurement

Depending on the national-market version, you can set the units of measurement for some values, for instance consumption, distances, and temperature.

1.  Apps menu
2. "Vehicle"
3. "System settings"
4. "Units"
5. Select the desired setting.

## Vehicle status

### General information

The status can be displayed and actions performed for several systems such as for Check Control.

### Displaying vehicle status

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"

### Overview

| Icon                                                                              | Description                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  | "Battery condition": High-voltage battery service life, refer to page <a href="#">337</a> .       |
|  | "FLAT TIRE MONITOR": Status of the flat tire monitor, refer to page <a href="#">356</a> .         |
|  | "Tire Pressure Monitor": Status of the Tire Pressure Monitor, refer to page <a href="#">351</a> . |

| Icon                                                                              | Description                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|  | "Engine oil level": Electronic oil measurement, refer to page <a href="#">372</a> .            |
|  | "Check Control": Displaying stored Check Control messages, refer to page <a href="#">142</a> . |
|  | "Service": Display of the service notifications, refer to page <a href="#">159</a> .           |

## Current driving condition

### General information

The current driving condition is displayed dynamically while driving in the Live Vehicle menu on the control display.

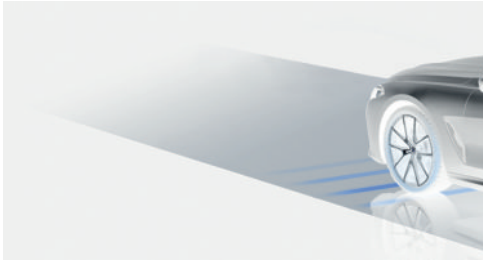
The following states can be displayed:

- ▷ Driving.
- ▷ Electric driving.  
Additional information on electric driving is displayed depending on the situation.
- ▷ Battery is charging.

### Functional requirements

- ▷ The following driving mode is selected:  
"ROAD"
- ▷ The following setting is selected for Live Vehicle: "Vehicle status"

## Display



An example:

The vehicle battery is charged when the vehicle decelerates.

## Sport displays

### Principle

The Sport displays especially support a sporty driving style.

### Functional requirements

- ▷ SPORT driving mode is selected.
- ▷ One of the following driving modes is selected:
  - ▷ "SPORT"
  - ▷ Depending on vehicle equipment: "TRACK".
- ▷ For Live Vehicle, select the following setting: "Adaptive content".

### Indicators on control display

The sport displays are displayed in the Live Vehicle menu on the control display.

The following information is displayed:

- ▷ Torque.
- ▷ Power.
- ▷ Boost pressure.
- ▷ Engine oil temperature.

## Display in the instrument cluster

Sport displays can be shown in the central display area of the instrument cluster. Sport displays include information on power and torque.

Additional information:

Central display area, refer to page [153](#).

## Service

### Principle

The service notifications indicate recommended maintenance work.

### General information

After turning on drive-ready state, the instrument cluster briefly displays the next service appointment or the distance remaining until the next recommended maintenance measures.

These can be read out from the vehicle key at an authorized service center.

### Display

More information may be displayed on the control display.

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Service"

Maintenance measures as well as legally mandated inspections are displayed.

5. Select the desired entry.

### Entering appointment dates

Dates for mandatory vehicle inspections can be entered.



Make sure that the vehicle's date and time are set correctly.

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Service"
5. "Vehicle inspection"
6. "Date:"
7. Select the desired setting.





# Light and view

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

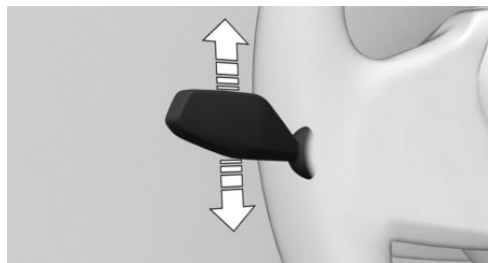
Vehicle equipment, refer to page 8.

## Turn signal

### Turn signal in exterior mirror

When driving and during operation of the turn signals or hazard warning system, do not fold in the exterior mirrors so that the turn signal lights on the exterior mirror are clearly visible.

### Flashing



Press the lever past the resistance point.

### One-touch signaling

Lightly tap the lever up or down.

The one-touch signaling duration can be adjusted.

1. Apps menu
2. "Vehicle"
3. "Exterior lighting"

4. If necessary, "Additional settings"
5. "One-touch turn signal"
6. Select the desired setting.

### Brief flashing

Press the lever to the resistance point and hold it there for as long as you want the turn signal to flash.

## High-beam headlights, headlight flasher

Press the lever forward or pull it backward.



- ▶ High-beam headlights on, arrow 1.  
The high-beam headlights illuminate when the low-beam headlights are switched on.
- ▶ High-beam headlights off/headlight flasher, arrow 2.



The indicator light in the instrument cluster illuminates when the high-beam headlights are turned on.

## High Beam Assistant

### Principle

The High Beam Assistant detects other road users early on and automatically switches the

high-beam headlights on or off depending on the traffic situation.

## General information

The High Beam Assistant ensures that the high-beam headlights are switched on, whenever the traffic situation allows. In the low speed range, the high-beam headlights are not switched on by the system.

The system responds to light from oncoming traffic and traffic driving ahead of you, and to ambient lighting, for instance in towns and cities.

The high-beam headlights can be switched on and off manually at any time.

## Functional requirements

- ▶ Automatic driving lights control is activated.
- ▶ Low-beam headlights are switched on.

## Activating High Beam Assistant

1.  Apps menu
2. "Vehicle"
3. "Exterior lighting"
4. "Additional settings"
5. "High Beam Assistant"



The indicator light in the instrument cluster is illuminated when the low-beam headlights are switched on.

The headlights are automatically changed between low-beam headlights and high-beam headlights.



The blue indicator light in the instrument cluster illuminates when the system switches on the high-beam headlights.

Interruption of the journey with activated High Beam Assistant: The High Beam Assistant remains activated when continuing the trip.

The High Beam Assistant is deactivated when manually switching the high-beam headlights on and off.



To reactivate the High Beam Assistant, press the turn signal lever up, arrow 1.

## Deactivating High Beam Assistant



Press the turn signal lever forward, arrow 1, or pull the turn signal lever backward when the high-beam headlights are switched on, arrow 2.

When the High Beam Assistant is deactivated via iDrive, the operation with the turn signal lever is not possible.

## Sensitivity of the High Beam Assistant

### General information

The sensitivity of the High Beam Assistant can be adjusted.

Safety information

 **WARNING**

If adjustments have been made or the sensitivity has been modified, oncoming traffic may be momentarily blinded. There is a risk of accident, injury, and property damage. If adjustments have been made and the sensitivity has been modified, make sure that oncoming traffic is not momentarily blinded. Turn off the high-beam headlights manually if required.

Functional requirements

- ▶ Setting at standstill only.
- ▶ Drive-ready state is switched on.
- ▶ Light is turned off.
- ▶ For Canadian models: Parking lights are on.

Increasing sensitivity

Push the turn signal lever to the front for approx. 10 seconds.

A Check Control message is displayed. The system responds more sensitively.

Resetting the sensitivity

Push the turn signal lever to the front again for approx. 10 seconds or switch off the drive-ready state.

The sensitivity of the High Beam Assistant is reset to the factory settings.

System limits

The High Beam Assistant cannot replace the driver's personal judgment of when to use the high-beam headlights. When appropriate, dim the high beams manually.

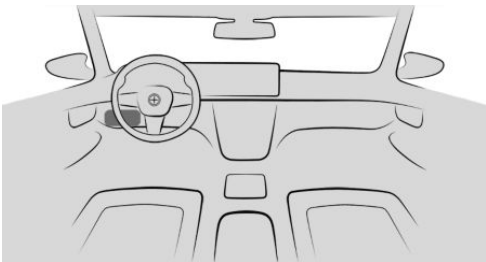
The system may not be fully operational in the following situations, and driver intervention may be necessary:

- ▶ In very unfavorable weather conditions such as fog or heavy precipitation.
- ▶ When detecting poorly-lit road users such as pedestrians, cyclists, horseback riders and wagons; when driving close to train or ship traffic; or at animal crossings.
- ▶ In tight curves, on hilltops or in depressions, in crossing traffic or half-observed oncoming traffic on highways.
- ▶ In poorly-lit towns and cities or in the presence of highly reflective signs.
- ▶ When the windshield in the area in front of the interior mirror is fogged up, dirty or covered with stickers, etc.

Exterior lighting

Overview

Buttons in the vehicle



| Icon                                                                                | Function                                                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | Exterior lighting menu.                                                             |
|  | Automatic driving lights control.<br>Low-beam headlights.<br>Exterior lighting off. |
|  | Exterior lighting off.                                                              |

## Functions via iDrive

| Icon                                                                             | Function                          |
|----------------------------------------------------------------------------------|-----------------------------------|
|  | Automatic driving lights control. |
|  | Low-beam headlights.              |
|  | Parking lights.                   |
|  | Exterior lighting off.            |
|  | Left roadside parking light.      |
|  | Right roadside parking light.     |

## Buttons on the vehicle key

| Icon                                                                               | Function                        |
|------------------------------------------------------------------------------------|---------------------------------|
|    | Interior lighting.              |
|   | Parts of the exterior lighting. |
|  | Pathway lighting.               |

## Automatic driving lights control

### Principle

The low-beam headlights are switched on and off automatically depending on the ambient brightness, for example in tunnels, in twilight or if there is precipitation.

## General information

A blue sky with the sun low on the horizon can cause the lights to be turned on.

If the low-beam headlights are switched on manually, the automatic driving lights control is deactivated.

### Activate automatic driving lights control



Press the button on the light switch.

The icon in the button illuminates green.



The indicator light in the instrument cluster is illuminated when the low-beam headlights are switched on.

### System limits

The automatic driving lights control cannot replace your personal judgment of lighting conditions.

For example, the sensors are unable to detect fog or hazy weather. In these situations, turn the lights on manually.

## Parking lights, low-beam headlights and roadside parking lights

### General information

If the driver's door is opened when the drive-ready state is switched off, the exterior lighting is automatically switched off after a period of time.

### Parking lights

#### General information

The parking lights can only be turned on at low speeds.

## Turning on parking lights

1.  Apps menu
2. "Vehicle"
3. "Exterior lighting"
4. "Parking light"



The indicator light in the instrument cluster illuminates.

The vehicle is illuminated on all sides.

Do not use the parking lights for extended periods; otherwise, they might drain the vehicle battery and it would then be impossible to switch on drive-ready state.

## Turning off parking lights

The following options are available to turn off the parking lights:

- ▶  Press the button on the light switch.
- ▶  Press and hold the button on the light switch.
- ▶ Turn off light via iDrive.
- ▶ Turn on the drive-ready state.

After the drive-ready state is switched on, the automatic driving lights control will be activated.

## Low-beam headlights

### Turning on low-beam headlights



Press the button on the light switch.

The low-beam headlights illuminate when drive-ready state is switched on.



The indicator light in the instrument cluster illuminates.

Press the button again to switch on the low-beam headlights when the standby state is switched on.

### Turning off low-beam headlights

Depending on the national-market version, the low-beam headlights can be turned off in the low speed range:

- ▶  Press the button on the light switch.
- ▶  Press and hold the button on the light switch.
- ▶ Turn off light via iDrive.

## Roadside parking lights

When the vehicle is parked, a one-sided roadside parking light can be switched on.

1.  Apps menu
2. "Vehicle"
3. "Exterior lighting"
4. "Left roadside parking light" or "Right roadside parking light"

## Welcome lights

### Principle

The welcome light turns on automatically for a limited period of time when approaching or unlocking the vehicle.

### General information

Depending on the equipment, the exterior lighting of the vehicle can be set individually.

### Activating/deactivating welcome light

1.  Apps menu
2. "Vehicle"



3. "Exterior lighting"
4. If necessary, "Additional settings"
5. Depending on the equipment, select the following setting:
  - ▷ "Welcome and goodbye"
 

When unlocking the vehicle, individual lighting functions are turned on.
  - ▷ "BMW Iconic Glow"
 

The radiator grille lighting can only be adjusted when the vehicle is stationary and the drive-ready state is switched off.

## Turning on the welcome light

- ▷ Automatically on approach.
- ▷ During unlocking.

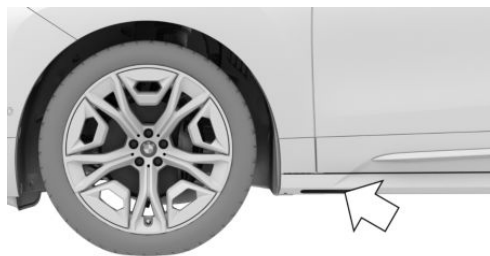


- ▷ Press the button on the vehicle key with the vehicle locked.

Depending on the settings, the interior lighting and parts of the exterior lighting will be turned on.

The function is not available for the first 10 seconds after locking.

## Welcome Light Carpet



The light source is located in the position indicated.

Keep the light source clean and unobstructed.

## Pathway lighting

### Principle

For the pathway lighting, the exterior lighting turns on for a certain period of time after leaving the vehicle in order to illuminate the area surrounding the vehicle.

### Switching pathway lighting on

- ▷ After switching off the drive-ready state, briefly push the turn signal lever forward.



- ▷ Press and hold the button on the vehicle key for approx. 1 second.

### Setting the duration

1. Apps menu
2. "Vehicle"
3. "Exterior lighting"
4. If necessary, "Additional settings"
5. "Pathway lighting"
6. Select the desired setting.

## Daytime driving lights

### General information

The daytime driving lights illuminate when drive-ready state is switched on.

### Activating/deactivating daytime driving lights

In some countries, daytime driving lights are mandatory, so it may not be possible to deactivate the daytime driving lights in front.

1. Apps menu
2. "Vehicle"
3. "Exterior lighting"

4. If necessary, "Additional settings"
5. Depending on vehicle equipment or national-market version:
  - ▷ "Daytime driving lights"
  - ▷ "Rear daytime driving lights"
  - ▷ "BMW Iconic Glow"

## Adaptive lighting functions

### Principle

Adaptive lighting functions enable dynamic illumination of the road.

### General information

The adaptive lighting functions may consist of one system or multiple systems, depending on the equipment version:

- ▷ Cornering light.

### Activating the adaptive lighting functions



Press the button on the light switch.

The LED in the button illuminates.

The adaptive lighting functions are active when the drive-ready state is switched on.

## Cornering light

### Principle

In tight curves, for instance on mountainous roads or when turning, an additional cornering light is switched on that illuminates the inside of the curve when the vehicle is moving below a certain speed.

## General information

The cornering light is automatically switched on depending on the steering-wheel angle or, where applicable, the use of turn signals.

When driving in reverse, the cornering lights may be automatically switched on regardless of the steering-wheel angle.

## Adaptive headlight range control

The adaptive headlight range control feature balances out acceleration and braking as well as the vehicle load conditions in order to avoid blinding oncoming traffic.

## Instrument lighting

### Functional requirement

The brightness can only be adjusted in darkness and with turned on parking lights or low-beam headlights.

### Setting the brightness

1.  Apps menu
2. "Vehicle"
3. "Interior lighting"
4. "Cockpit brightness at night"
5. Select the desired setting.

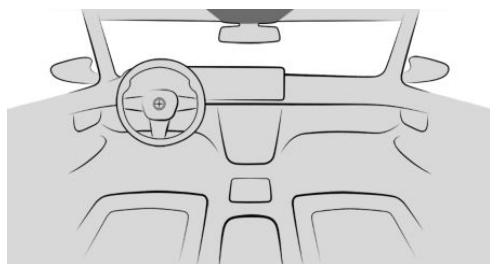
## Interior lighting

### General information

Depending on the equipment version, interior lights, footwell lights, entry lights, ambient lighting, and speaker lighting are automatically controlled.



## Overview



Interior lighting menu



Reading lights



Interior lights

## Turning interior lights on/off

Using the button:



Press the button.

To switch off permanently: Press the button and hold for approx. 3 seconds.

The interior lights in the rear of the vehicle can be switched on and off independently. The button is located in the rear headliner.

Via iDrive:

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. "Reading light"
5. Tap on the icon.

## Turning reading lights on/off

Using the button:



Press the button.

Depending on the vehicle equipment, the reading lights are located next to the interior lights in the front and rear.

Via iDrive:

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. "Reading light"
5. Tap the desired seat.

The brightness of the reading lights can be adjusted when they are turned on.

## Changing settings

Depending on vehicle equipment, the brightness can be individually adjusted for specific seats.

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. "Reading light"
5. Tap the desired seat.
6. Select the desired settings.

## Ambient light

### General information

Depending on the equipment version, lighting can be adjusted for some lights in the car's interior.

### Activating/deactivating ambient light

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. If necessary, "Ambience"
5. "Ambient lighting"





## Turning ambient light on/off

The ambient light is switched on when the vehicle is unlocked, and switched off when the vehicle is locked.

If the ambient light was deactivated via iDrive, it will not be turned on when the vehicle is unlocked.

## Selecting the color

Depending on the settings in the Interior Lighting menu, it may only be possible to select the color for the ambient lighting in ROAD drive mode.

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. If necessary, "Ambience"
5. "Color"
6. Select the desired setting.

## Setting the brightness

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. If necessary, "Ambience"
5. "Background light" or "Accent lighting"
6. Select the desired setting.

## Dynamic light

Certain situations, for example incoming calls or obstacles detected when opening doors, are indicated by light effects. If the ambient light is disabled, the light effects will continue to be shown, depending on vehicle equipment.

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. If necessary, "Ambience"

5. "Lighting effects"

6. Select the desired setting.

## Reduced for night drive

Some lights of the interior lighting are reduced when the vehicle is driven in the dark.

1. Apps menu
2. "Vehicle"
3. "Interior lighting"
4. If necessary, "Ambience"
5. "Reduced for night driving"

## Speaker lighting

### Principle

Some speakers in the vehicle are illuminated.

### Turning speaker lighting on/off

The speaker lighting is switched on when the vehicle is unlocked, and switched off when the vehicle is locked.

## Window wiper system

### Safety information



#### **WARNING**

If the wipers start moving in the folded away state, body parts can be jammed or damage may occur to parts of the vehicle. There is a risk of injury and risk of property damage. Make sure that the vehicle is switched off when the wipers are in the folded-away state and the wipers are folded in when switching on.

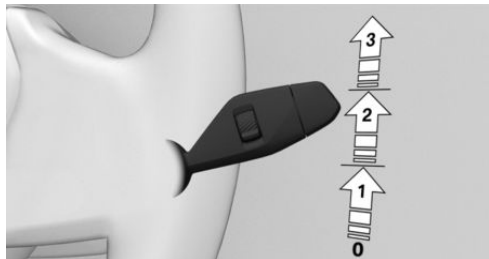
**NOTICE**

The wiper blades can become prematurely worn or damaged if used on dry window glass for long periods of time. The wiper motor can overheat. There is a risk of property damage. Do not use the wipers when the window glass is dry.

**NOTICE**

If the wipers are frozen to the windshield, the wiper blades can be torn off and the wiper motor can overheat when switching on. There is a risk of property damage. Defrost the window glass before turning on the wipers.

## Turning on window wiper system



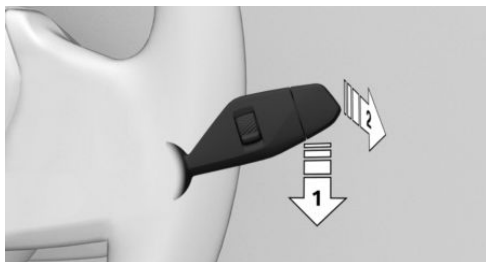
Press the lever up until the desired position is reached.

- ▶ Rest position of the wipers, position 0.
- ▶ Rain sensor mode, position 1.
- ▶ Normal wiper speed, position 2.
- ▶ Fast wiper speed, position 3.

When the trip is interrupted with the window wiper system turned on: When the trip continues, the wipers resume at their previous speed.

The wiper speed can be reduced gradually to protect the wiper motor from overheating.

## Turning off the window wiper system and flick wipe



Press the lever down or forward.

- ▶ Turning off: Press the lever down, arrow 1, until it reaches the 0 position.
- ▶ Flick wipe: Press the lever down from the 0 position, arrow 1, and press the lever in position 0 or position 1 forward, arrow 2.

The lever returns to its initial position when released.

## Rain sensor

### Principle

The rain sensor automatically controls the wiper operation depending on the intensity of the rainfall.

### General information

The sensor is located on the windshield, directly in front of the interior mirror.

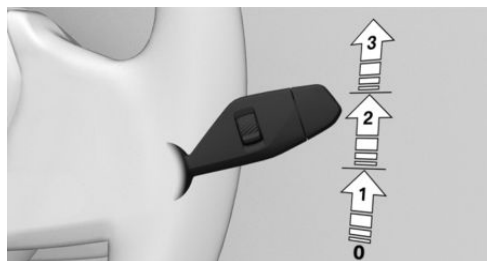
### Safety information

**NOTICE**

If the rain sensor is activated, the wipers can accidentally start moving in car washes. There is a risk of property damage. Deactivate the rain sensor in car washes.



## Activating rain sensor



Press lever up once from the 0 position, arrow 1.

Wiping operation is started.

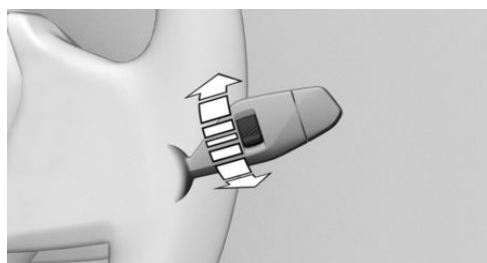
The LED in the wiper lever is illuminated.

In frosty conditions, wiping operation may not start.

## Deactivating rain sensor

Press lever back into the 0 position.

## Adjusting the rain sensor sensitivity



Turn the thumbwheel to adjust the sensitivity of the rain sensor.

- Upward: High rain sensor sensitivity.
- Downward: Low rain sensor sensitivity.

## Window washer system

### Safety information

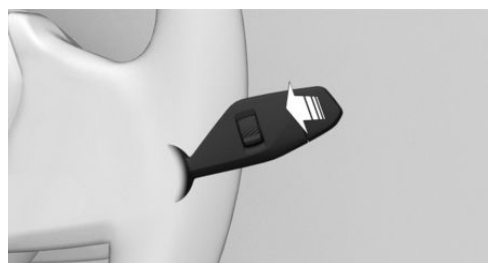
#### **WARNING**

The washer fluid may freeze to the window glass at low temperatures and obstruct your view. There is a risk of accident, injury, and property damage. Only use the window washer system when the washer fluid will not freeze. Use antifreeze if needed.

#### **NOTICE**

When the washer fluid reservoir is empty, the washer pump cannot work as intended. There is a risk of property damage. Do not use the washer system when the washer fluid reservoir is empty.

## Cleaning the windshield



Pull the lever.

The washer fluid is sprayed onto the windshield directly in front of the wiper blade when the wiper moves upward.

## Fold-out position of the wipers

### Principle

In the fold-out position, the wipers can be folded out from the windshield, which is important, for instance, when changing the wiper



blades or for folding away under frosty conditions.

## Safety information

### WARNING

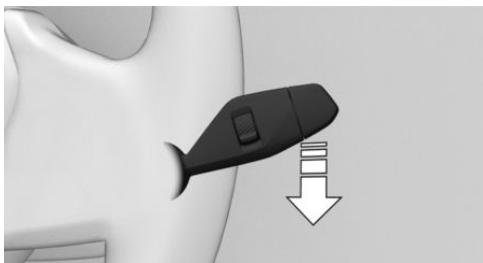
If the wipers start moving in the folded away state, body parts can be jammed or damage may occur to parts of the vehicle. There is a risk of injury and risk of property damage. Make sure that the vehicle is switched off when the wipers are in the folded-away state and the wipers are folded in when switching on.

### NOTICE

If the wipers are frozen to the windshield, the wiper blades can be torn off and the wiper motor can overheat when switching on. There is a risk of property damage. Defrost the window glass before turning on the wipers.

## Folding out the wipers

1. Turn on standby state.
2. Push the wiper lever down or forward and hold it until the wipers stop in an approximately vertical position.



3. Fold the wipers all the way out from the windshield.



## Folding in the wipers

1. Fold the wipers back in onto the windshield.
2. Turn on standby state, then press the wiper lever down or forward again and hold it. Wipers return to their rest position and are ready again for operation.

# Safety

## Vehicle features and options

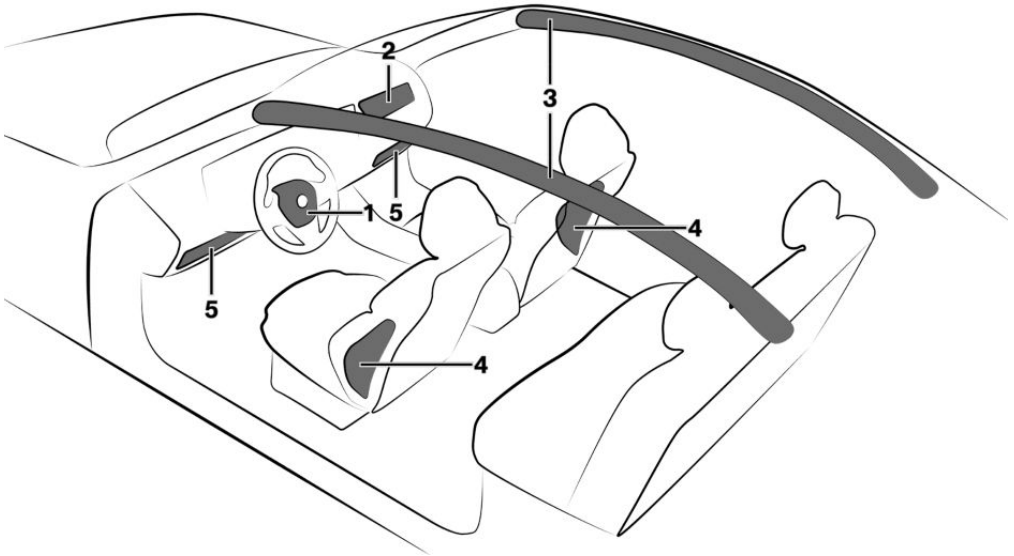
This chapter describes model-specific equipment, systems, and functions that are currently

available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Airbags



- 1 Front airbag, driver
- 2 Front airbag, front passenger
- 3 Head airbag
- 4 Side airbag
- 5 Knee airbag

### Front airbag

The front airbag helps protect the driver and front passenger in the event of a frontal impact in which the seat belts alone would not provide adequate protection.

### Side airbag

In the event of a side collision, the side airbag protects the side of the body in the chest and pelvic regions.

### Head airbag

In the event of a side collision, the head airbag protects the head.



## Ejection Mitigation

The head airbag system is designed as an ejection mitigation countermeasure to reduce the likelihood of ejections of vehicle occupants through side windows during rollovers or side collision events.

## Knee airbag

The availability of the knee airbag depends on the national-market version.

The knee airbag protects the legs in the event of a frontal impact.

## Protective effect

## General information

Airbags are not deployed in every impact situation, e.g., in less severe accidents.

## Information on optimum protective effect of the airbags

### WARNING

If the seat position is incorrect, the seat belts are fastened incorrectly or the deployment area of the airbags is impaired, the airbag system cannot provide protection as intended and may cause additional injuries due to deployment. There is a risk of injury and danger to life. Follow the information on achieving the optimum protective effect of the airbag system.

- ▶ Keep a distance from the airbags.
- ▶ Fasten the seat belts correctly.
- ▶ Always grasp the steering wheel on the steering wheel rim. Hold your hands at the 3 o'clock and 9 o'clock positions to keep the risk of injury to your hands or arms as low as possible when the airbag is deployed.
- ▶ Adjust seat and steering wheel so that hands can be crossed over the steering wheel. Select the settings so that

when reaching over the steering wheel the shoulders rest against the backrest and the upper body is as far away as possible from the steering wheel.

- ▶ Make sure that the front passenger is sitting correctly, i.e., with their feet and legs in the footwell, not resting on the instrument panel.
- ▶ Make sure that occupants keep their heads away from the side airbag.
- ▶ There should be no additional persons, animals or objects between an airbag and a person.
- ▶ Keep the instrument panel and windshield on the front passenger side clear, i.e., do not cover with adhesive film or covers, and do not attach holders for navigation devices or mobile phones, for example.
- ▶ Do not bond the airbag cover panels with adhesive, do not cover them or modify them in any way.
- ▶ Do not use the cover of the front airbag on the passenger's side as a storage area.
- ▶ Keep storage compartments near the airbags closed, e.g., glove compartment or center armrest.
- ▶ Do not place slip covers, seat cushions, or other objects on the front seats unless they are specifically designed for seats with integrated airbags.
- ▶ Do not hang pieces of clothing such as jackets over the backrests.
- ▶ Do not modify individual components or wiring. This also applies to steering wheel covers, the instrument panel, and the seats.
- ▶ Do not attach any objects to the steering wheel, e.g., mobile phone holders or trim elements.
- ▶ Do not disassemble the airbag system.

Even when you follow all instructions very closely, injury from contact with the airbags cannot be fully ruled out in certain situations.

The ignition and inflation noise may lead to short-term and, in most cases, temporary hearing impairment in sensitive occupants. Vehicle modifications for a person with disabilities may affect the air bag system; contact BMW Customer Relations for further information.

Warnings and information on the airbags are also found on the sun visors.

## Operational readiness of the airbag system

### Safety information

#### **WARNING**

Individual components can be hot after deployment of the airbag system. There is a risk of injury. Do not touch individual components.

#### **WARNING**

Improperly executed work can lead to failure, malfunction or unintentional deployment of the airbag system. In the case of a malfunction, the airbag system might not deploy as intended despite the accident severity. There is a risk of injury and danger to life. Have the airbag system checked, repaired, disassembled, and scrapped by an authorized service center or another qualified service center or repair shop.

### Display in the instrument cluster



When drive-ready state is turned on, the warning light in the instrument cluster illuminates briefly, thereby indicating the operational readiness of the entire airbag system and the seat belt tensioners.

### Malfunction



- ▶ Warning light does not illuminate when drive-ready state is turned on.
- ▶ The warning light illuminates continuously.

The airbag system or the seat belt tensioners may not be operational. Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

### Setting the front seat positions

The power that deploys the driver's/front passenger airbags depends on the position of the driver's/front passenger seat.

To maintain the accuracy of this function, calibrate the electrical front seats as soon as a respective message appears on the control display.

Additional information:

Seats, refer to page [102](#).

## Automatic deactivation of front passenger airbag

### Principle

The automatic front passenger airbag deactivation can detect if the front passenger seat is occupied.

The front passenger airbag is activated or deactivated accordingly.

### Safety information

#### **WARNING**

To ensure the front passenger airbag function, the system must be able to detect whether a person is sitting in the front passenger seat. The entire seat surface must be used for this purpose. There is a risk of

injury and danger to life. Make sure that the front passenger keeps his or her feet in the footwell.

## Functional requirements

To enable accurate recognition of the occupied seat surface:

- ▶ Do not attach covers, cushions, ball mats or other items to the front passenger seat unless they are specifically determined to be safe for use on the front passenger seat.
- ▶ Do not place objects under the seat that can press against the seat from below.
- ▶ Sit upright in the seat with your back against the backrest.
- ▶ Sit down with your feet touching the floor.

## Installing child restraint systems

To enable accurate recognition of the occupied seat surface of the front passenger seat:

- ▶ Pay attention to the specifications and the operating and safety information of the child restraint system manufacturer when using child restraint systems.
- ▶ Make sure that the seat surface of the child restraint system rests as flat as possible on the seat surface.
- ▶ Move the head restraint up or remove it to ensure that the child restraint system rests as flat as possible against the rear seat backrest.
- ▶ Observe the maximum size of the child restraint system, for example to avoid possible touching the roof.

Before transporting a child on the front passenger seat, refer to the safety information and instructions for children on the front passenger seat, see Children.

Additional information: Installation of child restraint systems, refer to page 116.

## Indicator light, front passenger air-bag

The front passenger airbag indicator light in the headliner indicates the operating state of the front passenger airbag.

The light indicates whether the airbag is activated or deactivated.

After drive-ready state is switched on, the light illuminates briefly and then indicates whether the airbag is activated or deactivated.

| Display                                                                           | Function                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>The indicator light is continuously illuminated when the seat is not occupied or when a child is detected on the seat in a provided child restraint system as intended. The airbag on the front passenger's side is not activated.</p> <p>The indicator light does not illuminate when, for instance, a correctly seated person of sufficient size is detected on the seat. The airbag on the front passenger's side is activated.</p> |

When the front passenger seat is occupied, check the indicator light in the headliner before and while driving.

## Fault of the automatic deactivation system

For adolescents and adults, the front passenger airbag may deactivate in certain seat positions. In this case, the indicator light for the front passenger airbag illuminates in the headliner.

In this case, change the seat position so that the front passenger airbag activates and the indicator light goes out.

If it is not possible to activate the airbags, have the person sit in the rear seat.



## Occupancy detection

The occupant detection system satisfies the legal requirements of Federal Motor Vehicle Safety Standard FMVSS 208 and deactivates the front passenger airbag under certain conditions.

## Acoustic pedestrian protection

### Principle

Depending on vehicle equipment and national-market version, Acoustic Pedestrian Protection produces a continuous driving noise on vehicles with electric or electrically-assisted drives.

A speaker system transmits the noise to the vehicle's surroundings. As a result, other road users, for instance pedestrians or cyclists, can better perceive the vehicle.

### Functional requirements

The acoustic pedestrian protection system generates driving noise under the following conditions:

- ▷ The selector lever is moved from position P when the vehicle is stationary and drive-ready state is turned on.
- ▷ With electric driving up to approx. 20 mph /30 km/h.

### Malfunction

If the acoustic pedestrian protection fails, exercise greater caution when maneuvering.

A Check Control message is displayed.

If malfunctioning repeatedly, have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Collision warning systems

### General information

Depending on the equipment, the vehicle has different systems that can help prevent the risk of imminent collision.

- ▷ Forward Collision Mitigation with brake intervention, refer to page [179](#).
- ▷ Exit Warning, refer to page [189](#).
- ▷ Lane Departure Warning, refer to page [191](#).
- ▷ Active Blind Spot Detection, refer to page [195](#).
- ▷ Side Collision Protection, refer to page [198](#).
- ▷ Rear-End Collision Preparation, refer to page [200](#).
- ▷ Traffic Light and Sign Warning, refer to page [201](#).
- ▷ Wrong Way Warning, refer to page [203](#).
- ▷ No Turn on Red Information, refer to page [204](#).
- ▷ Emergency Stop Assistant, refer to page [206](#).

### Safety information

#### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

**WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Sensors

Depending on vehicle equipment, the Intelligent Safety systems are controlled by the following sensors:

- ▷ Camera behind the windshield.
- ▷ Front radar sensor.
- ▷ Radar sensors, side, front.
- ▷ Radar sensors, side, rear.

Additional information:

Sensors of the vehicle, refer to page 39.

## Turning on/turning off collision warning systems

Depending on national-market version, some of the systems are automatically activated whenever you start driving.

The following functions are adjustable.

M MODE: The warning time setting cannot be changed in SPORT and TRACK driving mode.

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. Select the desired settings.

M MODE: The various driving modes affect the availability of the collision warning systems.

Some collision warning systems are deactivated depending on the driving mode selected.

Additional information:

M MODE, refer to page 218.

## Resetting the settings

The settings of the collision warning systems can be reset to the default settings at vehicle outbound delivery.

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Reset to recommended settings"

## System limits

### Safety information

**WARNING**

Because of system limitations, this system may either not respond, or respond too late, incorrectly, or without cause. There is a risk of accident, injury, and property damage. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

## Detection capability

The system's detection capability is limited.

The system only takes into account objects that are located in the detection range of the installed sensors and are detected by the system.

Depending on the vehicle equipment, the area is monitored by cameras or radar sensors.

Thus, a system response might not come or might come late.

## System limits of the sensors

Additional information:

Sensors of the vehicle, refer to page 39.

# Forward Collision Mitigation with brake intervention

## Principle

The Forward Collision Mitigation can help prevent accidents. If an accident cannot be avoided, the system can help reduce the severity of the accident.

The system can issue a warning of a possible risk of collision and activate the brakes independently, if needed.

## General information

Depending on the equipment version, the Forward Collision Mitigation system includes the following functions:

- ▷ Warning function in rear-end collision situations, refer to page 182.
- ▷ Warning function for oncoming traffic, refer to page 183.
- ▷ Warning function for turning with oncoming traffic, refer to page 184.
- ▷ Warning function for pedestrians, refer to page 185.
- ▷ Warning function at intersections, refer to page 186.
- ▷ Evasion Assistant, refer to page 188.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of acci-

dent, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Sensors

Depending on the equipment, the system is controlled by the following sensors:

- ▷ Camera behind the windshield.
- ▷ Front radar sensor.
- ▷ Radar sensors, side, front.

Additional information:

Sensors of the vehicle, refer to page 39.

## Speed range

The system issues a warning of a possible risk of collision at speeds above approx. 3 mph /5 km/h.

If the vehicle speed exceeds approx. 155 mph /250 km/h, the system is deactivated temporarily.

Some functions are deactivated earlier.

The system is enabled as soon as the speed drops below this value again.

## Turning the Forward Collision Mitigation on/off

### Turning on the system automatically

Depending on the national-market version, the system is automatically active after every departure.

### Turning on system manually

The system is activated by setting the warning time.

Additional information:

Setting the warning time, refer to page 180.

### Turning system off manually

Depending on national-market version, the adjustment can only be made when the vehicle is at a standstill or in a very low speed range.

If necessary, the switch-off must be confirmed successively on the control display.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Forward Collision Mitigation"
7. "Off"

### Setting the warning time

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Forward Collision Mitigation"
7. Select the desired setting.

The more sensitive the warning time is set to be, the more warnings will be displayed. The system can therefore also issue more early or unfounded warnings and reactions.

The system checks for visual impairments. Depending on the vehicle equipment, the Driver Attention Camera in the instrument cluster captures the driver's field of vision. Visibility and field of vision also affect the timing of the warnings.

### Display in the instrument cluster

The following indicator lights and warning lights are shown on the instrument cluster and, depending on vehicle equipment, on the Head-up display:

| Icon                                                                              | Meaning                                                                      |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
|  | Risk of collision with a person, e.g., a pedestrian.                         |
|  | Risk of collision, for instance with an oncoming or a vehicle driving ahead. |
|  | Risk of collision, e.g., with a vehicle crossing from the right.             |
|  | Risk of collision, e.g., with a vehicle crossing from the left.              |
|  | General risk of collision.                                                   |

Red warning lights may be shown in different ways since the system may have detected multiple objects.

### Warning function

The Forward Collision Mitigation warns on different warning levels, depending on the respective hazardous situation. In the event of a prewarning, a red warning light illuminates. In the event of an acute warning, a red warning light flashes and a warning tone sounds.

In the event of a system warning, the driver must intervene immediately and in accordance with the situation.

- Red warning light illuminates:

A hazardous situation has been detected. Increased awareness is required.

- ▷ Red warning light flashes:  
There is a risk of collision. Intervene immediately.
- ▷ A warning signal sounds:  
There is a risk of collision. Intervene immediately.
- ▷ Automatic brake intervention:  
Depending on the equipment and situation in case of risk of imminent collision, the system can also intervene with an automatic brake intervention and automatically decelerate the vehicle, if necessary, to a complete stop.

When the brake pedal is depressed quickly and hard, the maximum brake power of the vehicle is used.

## Automatic brake intervention

In case of a risk of collision, the system can assist with an automatic brake intervention, if necessary.

When the vehicle is traveling at a low speed, the vehicle may come to a complete stop.

During automatic brake intervention, Dynamic Stability Control activates automatically.

A brake intervention can be canceled by depressing the accelerator pedal with sufficient force, releasing the brake pedal, or by actively steering.

Depending on the equipment and situation, the brake intervention can occur up to approx. 155 mph /250 km/h.

At speeds above approx. 130 mph /210 km/h, only a brief brake intervention will occur.

## System limits

### Safety information

#### **WARNING**

Because of system limitations, this system may either not respond, or respond too late, incorrectly, or without cause. There is a risk of accident, injury, and property damage. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

### Detection capability

The system's detection capability is limited.

The system only takes into account objects that are located in the detection range of the installed sensors and are detected by the system.

Depending on the vehicle equipment, the area is monitored by cameras or radar sensors.

Thus, a system response might not come or might come late.

### System limits of the sensors

Additional information:

Sensors of the vehicle, refer to page 39.

### Functional limitations

The system may be limited in the following situations:

- ▷ In tight curves.
- ▷ With limitation of the driving stability control systems.
- ▷ Up to 10 seconds after turning on drive-ready state using the Start/Stop button.

Also, do not use Forward Collision Mitigation when towing.

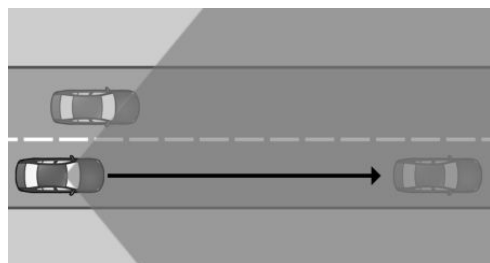
# Warning function in forward collision situations

## Principle

The warning function in forward collision situations warns of a possible risk of collision and may brake independently.

In the event of an accident, the system helps by reducing impact speed.

## General information



Sensors detect the traffic situation in their detection range.

The system issues a warning of a possible risk of collision with vehicles at speeds above approx. 3 mph /5 km/h. The timing of warnings may vary with the current driving situation.

The system considers the driver's vehicle handling when responding. If an active driving style is detected, warnings and brake interventions occur less frequently.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the

surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Display in the instrument cluster

If there is a risk of collision with a detected vehicle, a warning light is displayed.

| Icon                                                                              | Meaning                                            |
|-----------------------------------------------------------------------------------|----------------------------------------------------|
|  | Forward Collision Warning with a detected vehicle. |
|  | General risk of collision.                         |

## Warning function

The warning prompts the driver to intervene.

Additional information:

Forward Collision Mitigation, refer to page [179](#).

## System limits

### General information

Follow the system limits in the Forward Collision Mitigation chapter.

### Detection range

The following situations may not be detected, or only detected with a delay, for instance:

- ▶ Vehicle driving slowly in front and being approached at high speed.
- ▶ Vehicles that suddenly swerve in front of you, or strongly decelerating vehicles.
- ▶ Vehicles with unusual rear designs.

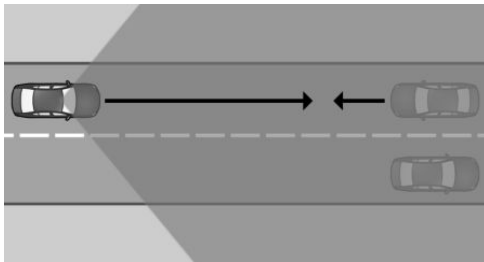
## Warning function for oncoming traffic

### Principle

The warning function for oncoming traffic can warn of a possible risk of collision with oncoming vehicles and may brake independently.

In the event of an accident, the system helps by reducing impact speed.

### General information



Sensors detect the traffic situation in their detection range.

The system issues a warning of a possible risk of collision with vehicles at speeds above approx. 3 mph /5 km/h. The timing of warnings may vary with the current driving situation.

### Safety information

#### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of acci-

dent, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

#### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

### Display in the instrument cluster

If there is a risk of collision with a detected vehicle, a warning light is displayed.

#### **Icon Meaning**



Oncoming traffic warning when a vehicle is detected.



General risk of collision.

### Warning function

The warning prompts the driver to intervene.

In case of a possible risk of collision, a brake intervention is triggered.

Additional information:

Forward Collision Mitigation, refer to page [179](#).

### System limits

#### General information

Follow the system limits in the Forward Collision Mitigation chapter.

## Detection range

The following situations may not be detected, for instance:

- ▷ Oncoming vehicles at a very high speed.
- ▷ Vehicles with an unusual front view.

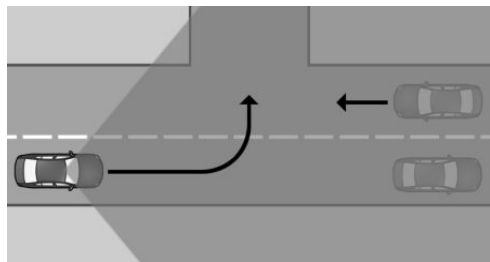
## Warning function for turning with oncoming traffic

### Principle

There is a risk of an accident with oncoming vehicles when turning across the oncoming lane. The system can issue a warning of a possible risk of collision and activate the brakes independently, if needed.

In the event of an accident, the system helps by reducing impact speed.

### General information



Sensors detect the traffic situation in their detection range.

The system issues a warning of a possible risk of collision with oncoming vehicles at speeds from approx. 3 mph /5 km/h. The timing of warnings may vary with the current driving situation.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Display in the instrument cluster

If there is a risk of collision with a detected vehicle, a warning light is displayed.

| Icon                                                                                | Meaning                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------|
|  | Oncoming traffic warning when a vehicle is detected. |
|  | General risk of collision.                           |

## Warning function

The warning prompts the driver to intervene.  
Additional information:



Forward Collision Mitigation, refer to page 179.

## System limits

### General information

Follow the system limits in the Forward Collision Mitigation chapter.

### Detection range

The following situations may not be detected, for instance:

- ▶ Oncoming vehicles at a very high speed.
- ▶ Vehicles that are hidden by other vehicles.
- ▶ Vehicles with an unusual front view.

### Upper speed limit

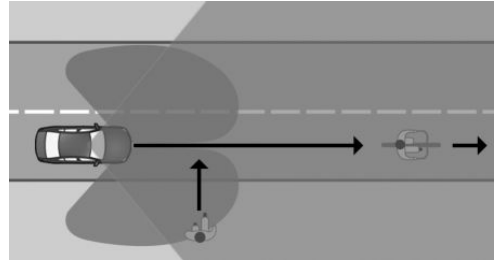
The system is active when the own speed is below approx. 15 mph /25 km/h.

## Warning function for pedestrians

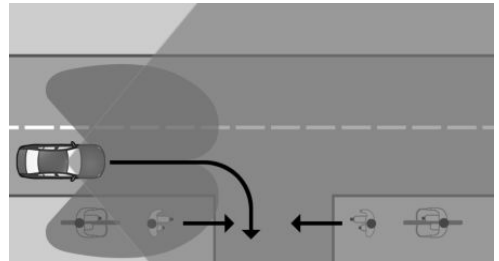
### Principle

At speeds that are common in towns and cities, the warning function warns the driver of a possible risk of collision with pedestrians and cyclists. The system may brake automatically. In the event of an accident, the system helps by reducing impact speed.

## General information



Sensors detect the traffic situation in their detection range when on a straight line.



Sensors detect the traffic situation in their detection range when turning.

The system issues a warning of a possible risk of collision with pedestrians or cyclists at speeds above approx. 3 mph /5 km/h.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

**WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Display in the instrument cluster

If there is a risk of collision with a detected pedestrian or cyclist, a warning light is displayed.

| Icon | Meaning                                              |
|------|------------------------------------------------------|
|      | Risk of collision with a person, e.g., a pedestrian. |
|      | General risk of collision.                           |

## Warning function

The warning prompts the driver to intervene.

Additional information:

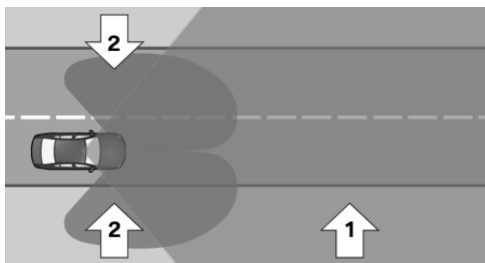
Forward Collision Mitigation, refer to page 179.

## System limits

### General information

Follow the system limits in the Forward Collision Mitigation chapter.

## Detection range



The detection range consists of the following parts:

- ▷ Area in front of the vehicle, arrow 1.
- ▷ With side radar sensors in front: Side areas, arrows 2.

The following situations may not be detected, for instance:

- ▷ Partially covered pedestrians or bikes.
- ▷ Pedestrians that are not detected as such because of their contour or posture.
- ▷ Pedestrians who are too small for the sensors to detect.

## Upper speed limit

Depending on the vehicle equipment, the system responds to pedestrians and cyclists when your vehicle speed is less than approx. 50 mph /80 km/h.

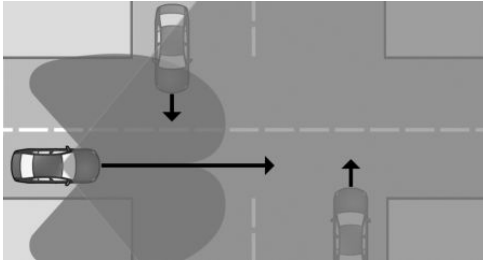
## Warning function at intersections

### Principle

At speeds that are common in towns and cities, the Intersection Collision Warning function can warn the driver of a possible risk of collision with crossing traffic at intersections and junctions. The system may brake automatically.

In the event of an accident, the system helps by reducing impact speed.

## General information



Sensors detect the traffic situation in their detection range.

Vehicles crossing your driving direction can be detected by the system as soon as these vehicles enter into detection range of the sensors.

At intersections and junctions, a warning is issued when a risk of collision with crossing traffic is detected.

The system issues a warning of a possible risk of collision with vehicles at speeds above approx. 3 mph /5 km/h.

The timing of warnings may vary with the current driving situation.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

### **WARNING**

When tow-starting/towing while safety systems or driver assistance systems are activated, the behavior of certain systems may lead to an accident, e.g., due to automatic braking or acceleration. There is a risk of accident, injury, and property damage. Do not use the corresponding safety systems or driver assistance systems when tow-starting/towing.

## Display in the instrument cluster

If there is a risk of collision with a detected vehicle, a warning light is displayed.

### **Icon      Meaning**

|                                                                                     |                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|
|  | Risk of collision with vehicle crossing from the right. |
|  | Risk of collision with vehicle crossing from the left.  |
|  | General risk of collision.                              |

## Warning function

The warning prompts the driver to intervene.  
Additional information:



Forward Collision Mitigation, refer to page 179.

## System limits

### General information

Follow the system limits in the Forward Collision Mitigation chapter.

### Detection range

The following situations may not be detected, for instance:

- ▶ Crossing vehicles when they are hidden, e.g. by buildings.
- ▶ Vehicles with an unusual side view.
- ▶ Vehicles in highly dynamic driving situations.

### Upper speed limit

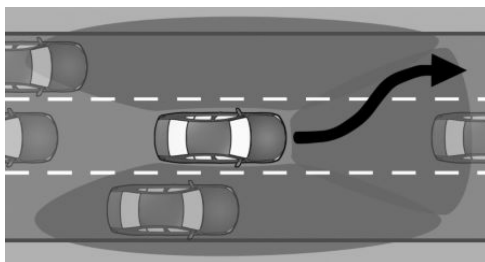
The system responds to crossing vehicles when the vehicle speed is below approx. 50 mph / 80 km/h.

## Evasion Assistant

### Principle

The Evasion Assistant can help the driver perform evasive maneuvers in certain situations, e.g., when obstacles or pedestrians appear suddenly.

## General information



The system issues a warning and intervenes to support the driver if a lateral evasive maneuver is possible.

Sensors monitor and detect the clearance in front of the vehicle. Depending on the vehicle equipment, the areas next to the vehicle are also monitored.

If the system detects sufficient free space alongside the vehicle, it helps the driver perform an evasive maneuver safely.

## Safety information



### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.



### WARNING

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of

accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirements

- ▷ Forward Collision Mitigation is active.
- ▷ Sensors detect sufficient clearance around vehicle.

## Speed range

The Evasion Assistant helps the driver when the vehicle speed is between approx. 19 mph /30 km/h to 100 mph /160 km/h.

## Display in the instrument cluster

If there is a risk of imminent collision with a detected vehicle or person, e.g., a pedestrian, a warning light appears.

| Icon                                                                               | Meaning                                  |
|------------------------------------------------------------------------------------|------------------------------------------|
|    | Warning when a vehicle is detected.      |
|    | Risk of collision with a pedestrian.     |
|  | Risk of collision with unknown obstacle. |



## Warning function with evasion support

If the vehicle approaches another object at a high differential speed, a warning is displayed if there is an immediate risk of collision.

Intervene in case of a warning.

The system is designed to provide assistance during evasive maneuvers when there is a risk of collision.

A message in the instrument cluster and, depending on the equipment, in the Head-up display signals the evasion support.

## System limits

### General information

Follow the system limits in the Forward Collision Mitigation chapter.

### Detection range

The following situations may not be detected, for instance:

- ▷ Vehicle driving slowly in front and being approached at high speed.
- ▷ Vehicles that suddenly swerve in front of you, or strongly decelerating vehicles.
- ▷ Vehicles with unusual rear designs.
- ▷ Two-wheeled vehicles ahead of you.
- ▷ Partially covered pedestrians or bikes.
- ▷ Pedestrians that are not detected as such because of their contour or posture.
- ▷ Pedestrians who are too small for the sensors to detect.

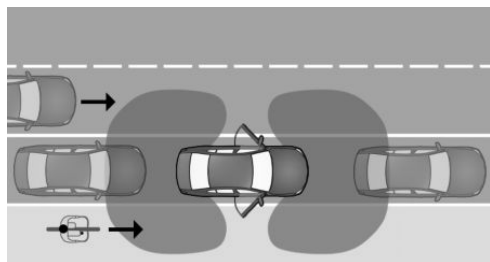
## Exit Warning

### Principle

The Exit Warning helps to avoid accidents.

The system can warn the occupants when they are opening the doors and a risk of collision with approaching objects is detected.

## General information



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

Depending on the vehicle equipment, the area around the vehicle in front of the vehicle is monitored as well. Two additional radar sensors are located in the front bumper.

The system monitors the vehicle's surroundings for a limited time after you get in or park. A possible risk of collision is indicated by various warning functions.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Pay attention to surrounding traffic and react accordingly as necessary.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust

driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Sensors

The system is controlled by the following sensors:

- ▷ Radar sensors, side, rear.
- ▷ Depending on the equipment: Radar sensors, side, front.

## Turning the Exit Warning on/off

### Turning the system on/off manually

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Exit Warning"
7. Select the desired setting.

### Turning on the system automatically

The Exit Warning activates automatically after departure if the function was switched on at the completion of the last trip.

## Adjusting the Exit Warning

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Exit Warning"
7. Select the desired setting.

## Turning the warning signal on/off

1.  Apps menu
2. "Vehicle"

3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Exit Warning"
7. "Warning tone"

## Displays

### Warning light in exterior mirror



The warning light in the exterior mirror warns of a possible collision with a detected vehicle.

### Ambient light

Depending on the equipment, warnings are also indicated by the ambient light in the interior.

## Warning function

### Prewarning

In the event of an advance warning, the warning light in the exterior mirror illuminates. Depending on the equipment, the ambient light also flashes.

An object was detected in the opening area. Increased awareness is required.

### Acute warning

In the event of an acute warning, the warning light in the exterior mirror flashes, as does the ambient light, depending on vehicle equipment. In addition, a signal tone sounds.

There is a risk of collision when opening the doors.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### Detection range

The following situations may not be detected, for instance:

- ▷ Fully or partially hidden objects.
- ▷ Stationary or very slow objects.
- ▷ Pedestrians.

### Functional limitations

The system may be limited in the following situations:

- ▷ The speed of an approaching vehicle is too fast or too slow.
- ▷ In curves.
- ▷ In case of fully or partially hidden objects.

## Lane Departure Warning with Active Lane Return

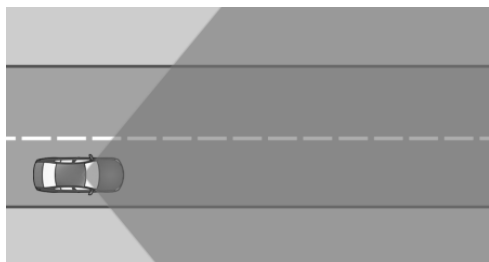
### Principle

The Lane Departure Warning alerts when the vehicle is about to run off the road or exit the lane.

An automatic steering intervention helps to keep the vehicle in its lane.



## General information



Sensors detect the traffic situation in their detection range.

The system issues a warning starting at a minimum speed. The minimum speed is country-specific and displayed on the control display.

Various warning functions from this system help the driver keep their vehicle in their lane.

The system does not provide a warning if the turn signal is set in the respective direction before exiting the lane.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing road and traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate. Do not jerk the steering wheel in response to a warning.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust

driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirement

The camera must detect the lane boundary for the Lane Departure Warning to be active.

The areas of the sensors must be clean and clear.

## Sensors

Depending on the equipment, the system is controlled by the following sensors:

- ▶ Camera behind the windshield.
- ▶ Front radar sensor.
- ▶ Radar sensor, side, front.

## Turning the Lane Departure Warning on/off

### Turning on the system automatically

Depending on the national-market version, the system is automatically active after every departure.

### Turning on system manually

The system is activated by the selected warning setting.

Additional information:

Configuring the warning, refer to page [193](#).

### Turning system off manually

Depending on vehicle equipment and national-market version, you must successively confirm the switch-off on the control display.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"



6. "Lane Departure Warning"
7. "Off"

## Setting Lane Departure Warning

### Configuring the warning

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Lane Departure Warning"
7. Select the desired setting.

▷ "Expanded"

If the system detects that your vehicle is about to leave your lane or cross a lane marking, a warning is issued. The system performs a steering intervention.

▷ "In dangerous situations"

Broken road lines: If the system detects that the vehicle is about to inadvertently cross a lane marking, or if the sensors detect an oncoming vehicle, a warning is issued and a steering intervention is performed.

Depending on national-market version, with continuous lane markings: If the system detects that your vehicle is about to inadvertently leave your lane or cross a lane marking, a warning is issued and a steering intervention is performed.

### Setting the intensity of the steering wheel vibration

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Feedback via steering wheel"

6. "Vibration intensity"
7. Select the desired setting.

The setting is applied to all collision warning systems.

### Depending on the national-market version: Turning steering intervention on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Lane Departure Warning"
7. "Steering intervention"

Depending on the national-market version, the steering intervention is automatically active after every driving off.

### Display in the instrument cluster

Various system statuses are shown on the instrument cluster, depending on vehicle equipment and national-market version.

| Icon                                                                               | Meaning                                                                                                                         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  | Indicator light flashes green: System is actively issuing a warning. If necessary, the system performs a steering intervention. |



Indicator light flashes green: System is actively issuing a warning. If necessary, the system performs a steering intervention.

Depending on vehicle equipment and national-market version, information for the system is displayed in the Assisted View of the instrument cluster.

Additional information:

Assisted View, refer to page [155](#).



## Warning function

### General information

Different warnings are issued by the Lane Departure Warning system, depending on situation and speed:

- ▷ Indicator lights on the instrument cluster.
- ▷ Steering wheel vibration.
- ▷ Steering intervention.
- ▷ Warning tone.

### Steering wheel vibration

If you leave the lane and if a lane boundary has been detected, the steering wheel vibrates in accordance with the steering wheel vibration setting.

Additionally, a light is displayed on the instrument cluster.

When the turn signal is switched on in the corresponding direction before changing the lane, a warning is not issued.

### Steering intervention

Depending on equipment and national-market version: If a lane boundary is crossed in the speed range up to 130 mph /210 km/h, the system may intervene with an active steering intervention in addition to the vibration. The system supports the driver in keeping the vehicle within the lane. The steering intervention can be noticed on the steering wheel and can be manually overridden at any time.

During an active steering intervention, a light is displayed on the instrument cluster.

For instance, the steering intervention will be suppressed in the following situations:

- ▷ With hard accelerating or braking.
- ▷ When flashing.
- ▷ With hazard warning system switched on.
- ▷ In driving situation with high driving dynamics.

- ▷ While Dynamic Stability Control regulates driving stability.
- ▷ While Dynamic Stability Control is limited.
- ▷ Immediately following a steering intervention by the vehicle systems.

### End of warning

For instance, the warning or an active steering intervention will be canceled in the following situations:

- ▷ Automatically after a few seconds.
- ▷ When returning to your own lane.
- ▷ With hard accelerating or braking.
- ▷ With hazard warning system switched on.
- ▷ When flashing.
- ▷ While Dynamic Stability Control regulates driving stability.
- ▷ Immediately following a steering intervention by the vehicle systems.
- ▷ With manual steering intervention.
- ▷ When another driver assistance system is activated, if applicable.
- ▷ No lane boundaries detected.
- ▷ When the system limits are reached.

### Warning signal

A warning tone sounds if the driver does not actively steer after the Lane Departure Warning system has performed multiple active steering interventions within one minute.

In addition, a Check Control message is displayed.

The warning tone and Check Control message advise the driver to pay closer attention to their lane.

The longer warning tone is stopped if the driver takes control of the steering.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### Functional limitations

The system may be limited in the following situations:

- ▶ In the event of missing, worn, poorly visible, merging, diverging, or multiple lane boundaries such as in construction areas.
- ▶ With lane boundaries that are covered in snow, ice, dirt or water.
- ▶ In tight corners or on narrow roads.
- ▶ With lane boundaries that are covered by objects.
- ▶ When driving very close to the vehicle in front of you.
- ▶ Up to 10 seconds after turning on drive-ready state using the Start/Stop button.
- ▶ While Dynamic Stability Control regulates driving stability.
- ▶ While Dynamic Stability Control is restricted or disabled.

A Check Control message may be displayed when the system is limited. A yellow indicator light also illuminates, depending on national-market version.

## Active Blind Spot Detection with active return

### Principle

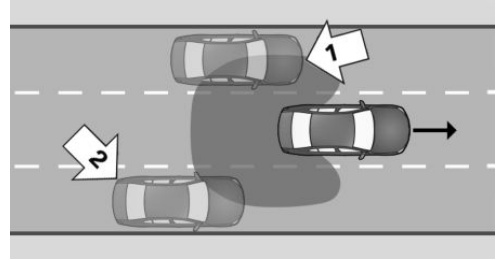
Active Blind Spot Detection detects vehicles in the blind spot or vehicles approaching from behind in the adjacent lane.

Objects are also detected when turning, depending on vehicle equipment.

The warning light in the exterior mirror gives warnings at different levels.

An automatic steering intervention helps to keep the vehicle in its lane.

### General information



Radar sensors monitor the area behind and next to the vehicle when traveling faster than a minimum speed.

The minimum speed is country-specific and displayed in the Active Blind Spot Detection menu.

The system indicates whether there are vehicles in your blind spot, arrow 1, or approaching from behind in an adjacent lane, arrow 2. The warning light in the exterior mirror illuminates dimly.

The system will warn in the previously named situations prior to a lane change. The warning light in the exterior mirror flashes and the steering wheel vibrates.

When turning at a speed of up to approx. 12 mph /20 km/h, the steering wheel will not vibrate.

### Safety information

#### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of acci-



dent, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Sensors

The system is controlled by the following sensors:

- ▷ Camera behind the windshield.
- ▷ Radar sensors, side, rear.
- ▷ Depending on the equipment: Radar sensors, side, front.

## Functional requirement

The areas of the sensors must be clean and clear.

## Turning Active Blind Spot Detection on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Active Blind Spot Detection"
7. Select the desired setting.

Depending on vehicle equipment and national-market version, the system activates automatically whenever you start driving.

## Adjusting the Active Blind Spot Detection

### Configuring the warning

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Active Blind Spot Detection"
7. Select the desired setting.

### Setting the intensity of the steering wheel vibration

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Feedback via steering wheel"
6. "Vibration intensity"
7. Select the desired setting.

The setting is applied to all collision warning systems.

### Depending on the national-market version: Turning steering intervention on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Active Blind Spot Detection"
7. "Steering intervention"

## Enabling/disabling the Turn Warning

Objects in your blind spot are detected when turning at low speed, depending on vehicle equipment.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Active Blind Spot Detection"
7. "Warning when turning"

## Warning function

### Warning light in exterior mirror



The warning light in the exterior mirror warns of a possible collision with a detected vehicle.

### Prewarning

The dimmed warning light in the exterior mirror indicates when vehicles are in your blind spot or approaching from the rear.

### Acute warning

When an acute warning occurs, the steering wheel vibrates briefly. The warning light in the exterior mirror flashes brightly.

An acute warning is issued if the following conditions are met:

- ▷ Another vehicle is located in the critical area.
- ▷ Your own vehicle is approaching the other lane.
- ▷ Depending on the system setting when the turn signal is turned on.

The warning stops when the other vehicle has left the critical area.

## Steering intervention

Depending on national-market version: The system may perform an active steering intervention if there is no response to the steering wheel vibration and a lane boundary is crossed at speeds of up to 130 mph / 210 km/h. The steering intervention helps return the vehicle into the lane. The steering intervention can be noticed on the steering wheel and can be manually overridden at any time.

The steering intervention is carried out from a minimum speed. The minimum speed is displayed on the control display.

## Warning light flashing

When the vehicle is unlocked, the warning light in the exterior mirror flashes for self-testing purposes.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### Upper speed limit

If the vehicle speed exceeds approx. 155 mph / 250 km/h, the system is deactivated temporarily.

If the vehicle speed falls below approx. 155 mph / 250 km/h, the system is reactivated.



## Displaying warnings

The number of warnings shown depends on how the settings are configured. However, there may also be an excess of unwarranted warnings of critical situations.

## Functional limitations

The system may be limited in the following situations:

- ▶ When a vehicle is approaching at a speed much faster than your own.
- ▶ In tight corners or on narrow roads.
- ▶ The bumper is dirty, iced up or covered, for instance by stickers.

Depending on the national-market version, the steering intervention e.g. in the following situations:

- ▶ In the event of missing, worn, poorly visible, merging, diverging, or multiple lane boundaries such as in construction areas.
- ▶ With lane boundaries that are covered in snow, ice, dirt or water.
- ▶ With lane boundaries that are not white.
- ▶ With lane boundaries that are covered by objects.
- ▶ When driving very close to the vehicle in front of you.
- ▶ If the camera is impaired.
- ▶ Up to 10 seconds after turning on drive-ready state using the Start/Stop button.

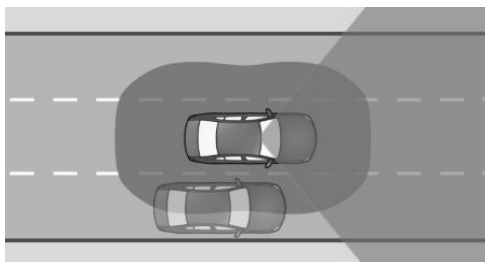
A Check Control message may be displayed when the system is limited. A yellow indicator light also illuminates, depending on national-market version.

## Side Collision Protection

### Principle

The Side Collision Protection helps to avoid an impending side collision.

## General information



Radar sensors monitor the space next to the vehicle when traveling faster than a minimum speed and up to approx. 130 mph /210 km/h.

The minimum speed is country-specific and displayed on the control display.

If, for example, another vehicle is detected next to your vehicle and there is a risk of collision with this vehicle, the system helps avoid a collision. For this purpose, the system issues a warning with a flashing LED in the exterior mirror, a Check Control message and a vibrating steering wheel. If necessary, an active steering intervention is performed by the system.

## Safety information



### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

**⚠ WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirement

The camera behind the windshield determines the lane boundary positions.

The camera must detect the lane boundaries for the Side Collision Protection with steering intervention to be active.

## Sensors

The system is controlled by the following sensors:

- ▶ Camera behind the windshield.
- ▶ Radar sensors, side, front.
- ▶ Radar sensors, side, rear.

## Turning the Side Collision Protection on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Side Collision Protection"
7. Select the desired setting.

## Setting the intensity of the steering wheel vibration

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Feedback via steering wheel"
6. "Vibration intensity"
7. Select the desired setting.

The setting is applied to all collision warning systems.

## Display in the instrument cluster

Depending on vehicle equipment and national-market version, information for the system is displayed in the Assisted View of the instrument cluster.

Additional information:

Assisted View, refer to page [155](#).

## Warning function

### Warning light in exterior mirror



The warning light in the exterior mirror warns of a possible collision with a detected vehicle.

### Acute warning

If there is a risk of collision, the warning light in the exterior mirror flashes and the steering wheel starts vibrating.

A Check Control message is displayed at the same time.

## Steering intervention

Depending on the national-market version, if necessary, the system engages the active steering intervention to prevent a collision and maintain the vehicle within its own lane. The steering intervention can be noticed on the steering wheel and can be manually overridden at any time.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### Functional limitations

The system may be limited in the following situations:

- ▶ In tight corners or on narrow roads.
- ▶ In the event of missing, worn, poorly visible, merging, diverging, or multiple lane boundaries such as in construction areas.
- ▶ With lane boundaries that are covered in snow, ice, dirt or water.
- ▶ With lane boundaries that are not white.
- ▶ With lane boundaries that are covered by objects.
- ▶ When driving very close to the vehicle in front of you.
- ▶ Up to 10 seconds after turning on drive-ready state using the Start/Stop button.

A Check Control message may be displayed when the system is limited.

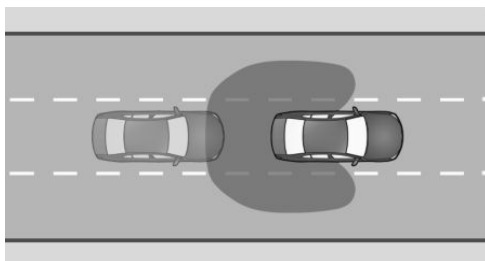
## Rear-End Collision Preparation

### Principle

Depending on the equipment and national-market version, the Rear-End Collision Preparation can react to vehicles approaching from behind.

ration can react to vehicles approaching from behind.

### General information



Radar sensors monitor the area behind the vehicle.

When a vehicle approaches from the rear at a certain speed, the system can react as follows:

- ▶ If necessary, the hazard warning system will turn on.
- ▶ Where applicable, the PreCrash functions are triggered.

### Safety information

#### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

#### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be is-



sued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Sensors

The system is controlled by the radar sensors on the sides and rear.

## Turning Rear-End Collision Preparation on/off

The system is automatically active when the vehicle is turned on.

The system is deactivated when reversing.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### Functional limitations

This function may be limited if the speed of the approaching vehicle is much higher or similar to your own speed.

## Traffic Light and Sign Warning

### Principle

The Traffic Light and Sign Warning provides support in situations in which the right-of-way needs to be yielded based on road signs or traffic lights.

### General information

The system evaluates road signs and traffic lights using a camera behind the windshield.

The navigation system directs information on the road layout to the system.

A warning is given if the right of way is about to be violated, e.g., in the following traffic situations:

- ▷ At an intersection.
- ▷ At a road entrance.
- ▷ On a highway entrance ramp.
- ▷ At a roundabout.
- ▷ With a red traffic light.

The system issues a warning as from a variable minimum speed and at speeds up to approx. 60 mph /100 km/h.

The following road signs are taken into account for the Traffic Light and Sign Warning:

| Sign                                                                              | Meaning                                                                         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|  | Give way signs:<br>A pre-warning is issued for these road signs.                |
|  | Stop signs:<br>A pre-warning is issued for these road signs.                    |
|  | When traffic lights are red, a pre-warning and an acute warning will be issued. |

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

**WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirement

The right-of-way situation ahead of the vehicle must be clearly controlled by road signs or traffic lights.

## Sensors

The system is controlled by a camera behind the windshield.

## Turning the Traffic Light and Sign Warning on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Traffic Light and Sign Warning"
7. Select the desired setting.

## Setting the warning time

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Traffic Light and Sign Warning"
7. Select the desired setting.

The selected setting is saved and adopted for the next journey.

## Warning function

### General information

The system issues a two-phase warning:

- ▷ Prewarning: Visual warning by an icon in the instrument cluster.
- ▷ Acute warning: Visual warning by an icon in the instrument cluster and an additional acoustic signal.

The timing of the warning varies with the actual driving situation and the warning time setting.

### Prewarning

If there is a risk that a right of way is about to be violated, one of the following icons appears in the instrument cluster:

| Icon                                                                                | Meaning            |
|-------------------------------------------------------------------------------------|--------------------|
|    | Give way.          |
|    | Stop.              |
|  | Red traffic light. |

When a prewarning is issued, intervene as appropriate for the situation; for example, by braking.

### Acute warning

If there is an acute risk that the right of way is about to be violated, an acoustic signal will sound and one of the following icons will appear in the instrument cluster:

| Icon                                                                             | Meaning            |
|----------------------------------------------------------------------------------|--------------------|
|  | Red traffic light. |

When an acute warning is issued, intervene as appropriate for the situation; for example, by braking.

## Display in the Head-up display

Depending on the vehicle equipment, the warning is displayed simultaneously in the Head-up display and in the instrument cluster.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### No warning

The system does not issue a warning in the following situations, for example:

- ▶ In right-of-way situations without right-of-way signs, stop signs, or red traffic lights.
- ▶ With intersections with relevant traffic lights that are illuminated yellow or green.

### Functional limitations

The system may be limited in the following situations:

- ▶ If road signs or traffic lights are unclear.
- ▶ If road signs or traffic lights are fully or partially concealed or soiled.
- ▶ If road signs or traffic lights are difficult to read or rotated.
- ▶ If road signs or traffic lights are too small or too large.
- ▶ If the road signs do not correspond to the standard.
- ▶ When road signs are detected that apply to a junction or parallel street.

- ▶ In the presence of country-specific road signs or road layouts.
- ▶ With intersections with flashing traffic lights.
- ▶ Up to 10 seconds after turning on drive-ready state using the Start/Stop button.
- ▶ In the case of navigation data that is invalid, outdated or not available.
- ▶ In some regions, the system may not be available or only partially available.

## Wrong Way Warning

### Principle

The Wrong Way Warning warns the driver of an upcoming wrong entry onto roads, for instance onto freeways, roundabouts and one-way streets.

### General information

Depending on the equipment version, the system uses navigation data and road signs to check the traffic situation.

For example, the system takes the following road signs into account:

- ▶ No entrance.
- ▶ Roundabout.
- ▶ Directional arrows: Mandatory bypass.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready



to take over steering and braking at any time, and actively intervene where appropriate.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirement

The road layout ahead must be controlled clearly with road signs.

## Sensors

The system is controlled by a camera behind the windshield.

## Enabling the Wrong Way Warning

Depending on national-market version, the Wrong Way Warning is automatically activated whenever you start driving.

## Warning function



A warning is displayed and a signal tone sounds, for example when the vehicle is traveling in the wrong direction on a highway, roundabout or one-way street.

Warnings are displayed in the instrument cluster and, depending on the equipment, in the Head-up display.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### No warning

For example, the system does not issue a warnings for road layouts without road signs.

### Functional limitations

The function may be limited in the following situations, for instance, and will either output an incorrect Wrong Way Warning or no warning at all:

- ▷ When the signage is not clear.
- ▷ If the road signs are fully or partially concealed or soiled.
- ▷ If the road signs are poorly legible or rotated.
- ▷ If the road signs are too small or too large.
- ▷ If the road signs do not correspond to the standard.
- ▷ When road signs are detected that apply to a junction or parallel street.
- ▷ In the presence of country-specific road signs or road layouts.
- ▷ Up to 10 seconds after turning on drive-ready state using the Start/Stop button.
- ▷ In the case of navigation data that is invalid, outdated or not available.
- ▷ It may not be possible to use the system in all regions.

## No Turn on Red Information

### Principle

This function provides assistance to the driver at traffic lights where turning on red is prohibited.

To do so, this function analyzes traffic lights and road signs using the camera behind the windshield. In addition, the navigation system data is used.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirements

- ▶ The system detects the right-of-way situation ahead by analyzing traffic lights and road signs.
- ▶ Vehicle is less than approx. 164 ft/50 m from the traffic lights.
- ▶ Depending on vehicle equipment: The Traffic Light and Sign Warning is turned on.

## Sensors

The system is controlled by a camera behind the windshield.

## Display in the instrument cluster



If the driver approaches a red traffic light with a road sign that prohibits a turn on red, an indicator light is displayed on the instrument cluster.

The indicator light goes out automatically after you drive off at a speed greater than approx. 9 mph /15 km/h.

## System limits

### General information

Follow the system limits in the Collision warning systems chapter.

### Functional limitations

The system may be limited in the following situations:

- ▶ If road signs or traffic lights are unclear.
- ▶ If road signs or traffic lights are fully or partially concealed or soiled.
- ▶ If road signs or traffic lights are difficult to read or rotated.
- ▶ If road signs or traffic lights are too small or too large.
- ▶ If the road signs do not correspond to the standard.
- ▶ With intersections with flashing traffic lights.
- ▶ In the case of navigation data that is invalid, outdated or not available.
- ▶ In some regions, this function may not be completely available or not available at all.



# Emergency Stop Assistant

## Principle

If the driver can no longer drive the vehicle safely, the Emergency Stop Assistant helps to bring the vehicle to a safe standstill.

## General information

The Emergency Stop Assistant is triggered automatically.

When the system is triggered, the vehicle is brought to a standstill in its own lane by use of lane keeping.

Emergency Stop Assistant is not triggered in TRACK drive mode.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing one's physical state. An increasing lack of alertness or fatigue may not be detected or not be detected in time. There is a risk of accident, injury, and property damage. Make sure that the driver is rested and alert. Adjust driving style to traffic conditions.

## Functional requirements

- ▶ The Emergency Stop Assistant is activated via iDrive.
- ▶ The system is activated from a speed of approx. 43 mph /70 km/h.
- ▶ The Driver Attention Camera detects driver activity.

## Triggering the Emergency Stop Assistant

If the system detects that the driver is no longer driving the vehicle safely or ignores warnings, the Emergency Stop Assistant is

triggered automatically. The triggered system is displayed in the instrument cluster.

The Emergency Stop Assistant can also be triggered via voice input.

Additional information:

BMW Intelligent Personal Assistant, refer to page 58.

An immediate emergency call can be triggered on the control display.

The following is performed automatically when the Emergency Stop Assistant is triggered:

- ▶ In SPORT drive mode, the vehicle switches automatically to ROAD drive mode.
- ▶ A display is shown on the instrument cluster.
- ▶ The system takes over vehicle handling until the vehicle comes to a standstill.
- ▶ The hazard warning system is switched on.
- ▶ An emergency call is triggered when at a standstill, depending on vehicle equipment.
- ▶ The Head-up display may turn off while an emergency call is ongoing.

## Activating/deactivating Emergency Stop Assistant

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Emergency stop"
7. Select the desired setting.

## Canceling Emergency Stop Assistant

The driver can cancel the Emergency Stop Assistant by actively taking control of driving the vehicle throughout the entire process.

The system is stopped by the following actions, for example:

- ▶ By firmly pressing the accelerator pedal.
- ▶ By stopping the system on the control display.
- ▶ By operating the turn signal.
- ▶ By turning off the hazard warning system.
- ▶ By firmly countersteering.
- ▶ By changing the selector lever position when the vehicle was already at a standstill.

## At standstill

As soon as the vehicle is stationary, the system will carry out the following settings:

- ▶ The vehicle is secured against rolling away.
- ▶ The interior lights are switched on.
- ▶ The central locking system is unlocked.

## Display in the instrument cluster

### Icon Status



Emergency Stop Assistant is triggered.

## System limits

The system cannot replace the roadworthy driving performance of a driver.

The Emergency Stop Assistant may be limited in the following situations:

- ▶ When the Driver Attention Camera is covered by the steering wheel.
- ▶ With sunglasses with high protection from infrared light.

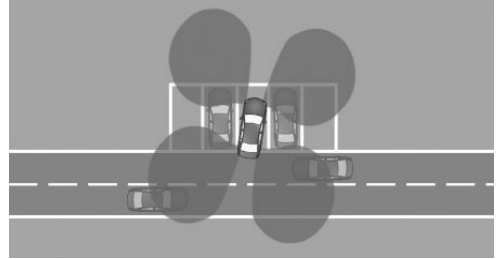
## Cross Traffic Warning with Braking

### Principle

At blind driveway exits or when driving out of perpendicular parking spaces, road users ap-

proaching from the side are detected sooner by the cross traffic warning than is possible from the driver's seat.

## General information



The area behind the vehicle is monitored by sensors.

Depending on the vehicle equipment, the area around the vehicle in front of the vehicle is monitored as well.

The system indicates approaching road users.

If there is a collision risk when reversing, the system will provide assistance by performing an automatic brake intervention.

Follow the information in the Parking assistance systems chapter.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.



## Sensors

The system is controlled by the following sensors:

- ▷ Radar sensors, side, rear.
- ▷ Depending on the equipment: Radar sensors, side, front.

## Activating/deactivating Cross Traffic Warning

The system must be activated on the control display for the Cross Traffic Warning and brake intervention to switch on automatically.

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. Depending on the equipment, select the following setting:
  - ▷ "Rear warning"
  - ▷ "Front and rear warning"
  - ▷ "Brake intervention at rear"

## Turning on the cross traffic warning automatically

The system must be activated on the control display. The system turns on automatically as soon as Park Distance Control or a camera view activates and you engage a gear position.

If reverse gear is engaged, the rear system is switched on.

Depending on the equipment, the front system is turned on when a gear position is engaged.

Depending on the national-market version, the system is automatically active when the vehicle is started.

## Turning off the cross traffic warning automatically

The system is automatically turned off in the following situations:

- ▷ When the speed exceeds walking speed.
- ▷ When a certain distance covered is exceeded.

## Warning function

### General information

The control display shows the corresponding view, an acoustic signal may sound as necessary, and the warning light in the exterior mirror flashes.

In case of a brake intervention, a message is displayed on the control display and close after a brief period of time.

### Visual warning

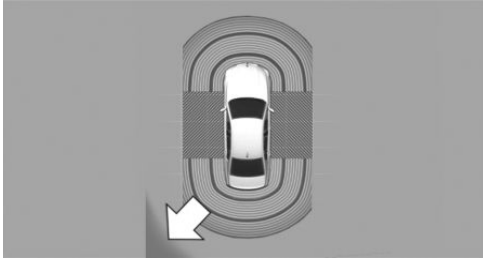
#### Warning light in exterior mirror



The warning light in the exterior mirror flashes if the rear sensors detect other vehicles when the vehicle is reversing.

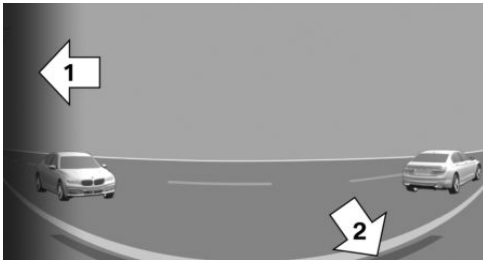


## Display in the Park Distance Control view



In the Park Distance Control view, the respective boundary area flashes red if vehicles are detected by the sensors.

## Display in camera image



Depending on the direction of travel, the view to the front or back is displayed in the camera image.

The respective boundary area, arrow 1, in the camera image flashes red if vehicles are detected by the sensors.

Yellow lines, arrow 2, mark the bumper of your own vehicle.

## Acoustic warning

In addition to the visual warning, a signal tone sounds if your own vehicle moves into the respective direction.

Depending on the national-market version, the signal tone will already sound when the gear position is engaged.

## System limits

### System limits of the sensors

Additional information:

Sensors of the vehicle, refer to page 39.

### Functional limitations

The function may be limited, for instance in the following situations:

- ▷ In tight curves.
- ▷ Crossing objects are moving at a very slow or a very fast speed.
- ▷ Other objects that hide cross traffic are in the capture range of the sensors.

## BMW Drive Recorder

### Principle

The BMW Drive Recorder stores brief video recordings of the vehicle surroundings, e.g., to document surrounding traffic.

### Vehicle features and options

This system may not be available in the owned vehicle, e.g. due to the selected optional equipment, the national-market version or the option for later enabling and software updates. This also applies to individual functions of the system.

For information on whether a function is currently available in the vehicle or when the function can be installed in the vehicle, contact an authorized service center or another qualified service center or repair shop.

Additional information:

Vehicle equipment, refer to page 8.

### General information

Video recordings can be saved in different ways:



- ▷ Automatic storage of the recording.  
The function makes it possible to document the accident or theft of the vehicle with the corresponding recording type set.
- ▷ Manual storage of the recording.  
This function is used to document traffic situations with the configured recording type.

Video recordings can be played on the control display.

The assistance systems' cameras are used to record, e.g., Panorama View.

Additionally, the following parameters are stored for the trip:

- ▷ Date.
- ▷ Time.
- ▷ Vehicle speed.
- ▷ Global Positioning System coordinates.

## Data protection

The permissibility of recording and using video recordings is contingent upon the statutory regulations of the country in which the system is to be used. The user is responsible for the use of the system and compliance with respective applicable regulations.

The manufacturer of the vehicle recommends confirming there are no statutory or regulatory constraints on use of the system in your state or country prior to the initial use. In addition, the laws with respect to use of the system should be verified in regular intervals, especially when borders are frequently crossed.

Other drivers of the vehicle must be informed about the system. In addition, information about the system is required when handing off the vehicle.

## Functional requirements

- ▷ Standby or drive-ready state is turned on.
- ▷ BMW Drive Recorder is activated.
- ▷ Privacy Policy was accepted.

- ▷ Depending on vehicle equipment, consent has been granted in the Privacy menu for the transfer or use of the data required for the function, e.g., the camera or GPS coordinates.
- ▷ Recording type was selected.
- ▷ Recording time was selected.

Theft notification:

- ▷ The theft notification was activated in the Data Protection menu or in the Drive Recorder menu.
- ▷ Data transfer is activated.
- ▷ My BMW App is installed on the mobile device.
- ▷ My BMW App is linked with the Connected-Drive account.
- ▷ Privacy Policy was accepted.

Additional information:

Data protection, refer to page 68.

## Activating/deactivating the BMW Drive Recorder

The BMW Drive Recorder must be activated before the first use of the recording function.

1. ■■ Apps menu
2. "All apps"
3. "Drive Recorder"
4. Accept Privacy Policy.
5. "Settings"
6. "Allow recording"
7. Select the desired setting.

## Recording functions

### Automatic recording

The recording is automatically stored when the vehicle sensors detect an accident or theft.

- ▷ In case of accident:

The system saves recordings up to approx. 30 seconds before and after storage is triggered.

► In case of theft:

Depending on the selected recording duration, the system saves the recording after it has been triggered.

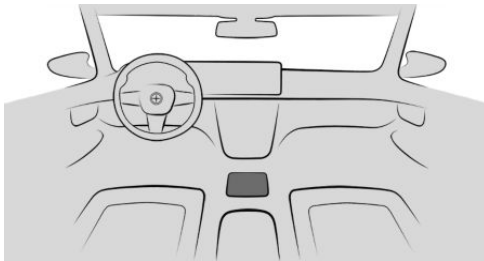
When the alarm system is triggered, a message is sent to the My BMW App.

After saving the recording, the reduced quality video can be downloaded to a mobile device.

If the vehicle accelerates rapidly, an automatic recording may be taken.

## Manual recording

### Using the button



Press and hold this button.

### Via iDrive

Start the recording:

1.  Apps menu
2. "All apps"
3. "Drive Recorder"
4. "Recording"
5. "Start recording"

Stop the recording: "Stop recording".

The system saves recordings up to approx. 30 seconds before and after storage is triggered.

## Recording playback and administration

Stored video recordings can be played back, exported and deleted.

For your own safety, the video recording is only displayed on the control display up to approx. 2 mph /3 km/h. In some national-market versions, the video recording is only displayed if the parking brake is engaged or if the selector lever is in the P position.

1.  Apps menu
2. "All apps"
3. "Drive Recorder"
4. "Record -ings"
5. Select desired recording.
6. If necessary, select camera.

## Settings

### Recording type

1.  Apps menu
2. "All apps"
3. "Drive Recorder"
4. "Settings"
5. Select the desired setting.

### Recording time

1.  Apps menu
2. "All apps"
3. "Drive Recorder"
4. "Settings"
5. Select the desired setting.

## Recording on a mobile device

### Principle

Depending on the equipment version, video recordings can be stored directly on a mobile device such as a smartphone or USB storage.



## General information

Depending on national-market version: The storable video length depends on the mobile device's available storage space.

## Functional requirements

- ▷ Privacy Policy was accepted.
- ▷ BMW Drive Recorder is activated.

To transfer recordings to a mobile device:

- ▷ Depending on vehicle equipment, a mobile device is connected to the vehicle via Wi-Fi and Bluetooth audio, or a USB storage device is connected.
- ▷ My BMW App is installed and open on the mobile device.
- ▷ A BMW ID is linked to a ConnectedDrive account in the vehicle and the My BMW App.
- ▷ The My BMW App is permitted to access your photo library.
- ▷ The mobile device is placed close to the center console.

## Recording

The recording can be started and stopped manually.

Start the recording:

1. Apps menu
2. "All apps"
3. "Drive Recorder"
4. "Recording"
5. "Start recording"

Stop the recording: "Stop recording".

## Cameras

Different cameras can be selected.

1. Apps menu
2. "All apps"
3. "Drive Recorder"
4. "Settings"

5. "Cam. selection"

6. Select desired camera.

## System limits

In the event of serious accidents, it may not be possible to store recordings if the damage on the vehicle is too great or the power supply was interrupted.

If the accident severity is too low, the BMW Drive Recorder may not save a recording.

If you repeatedly overwrite a USB drive, it may not be possible to export recordings correctly.

The preferred file system for USB storage is NTFS. Other file systems may have limitations.

In case of theft, recordings are only saved automatically when the alarm system has been triggered.

If the internet connection is weak or cannot be established, theft alerts and video downloads may be restricted or not available.

The BMW Drive Recorder may not work properly if used in parallel with Apple CarPlay or Android Auto on the vehicle Wi-Fi. A corresponding message appears on the control display.

The quality of the Wi-Fi connection affects whether recordings can be saved on your smartphone. This function may be restricted or not available if the connection is weak.

If the mobile device overheats, e.g., when charging in the Wireless Charging tray, the recording system may stop when recording manually or sending a recording.

## Active Protection

### Principle

Active Protection prepares occupants and the vehicle for a possible accident in critical driving or collision situations.

## General information

Depending on vehicle equipment and national-market version, Active Protection consists of various PreCrash functions.

The system is used to detect certain critical driving situations that might lead to an accident. This includes the following critical driving situations:

- ▷ Emergency braking.
- ▷ Severe understeering.
- ▷ Severe oversteering.

Certain functions of several systems can, within the system limits, lead to Active Protection triggering:

- ▷ Forward Collision Mitigation: Automatic brake intervention.
- ▷ Forward Collision Mitigation: Brake booster.
- ▷ Rear-End Collision Preparation: Detection of impending rear-end collisions.

Active Protection is not triggered in TRACK driving mode.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment. Due to the system limits, critical situations might not be detected reliably or in time. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Function

Depending on the equipment and requirements, the following individual functions are active in accident-critical driving situations:

- ▷ Automatic closing of the windows.

The windows remain open with a small gap.

- ▷ Automatic closing of glass sunroof.
- ▷ Automatic positioning of the backrest for the front passenger seat.

Systems can be returned to the desired settings following a critical driving situation without accident.

## PostCrash iBrake

### Principle

In certain accident situations, the PostCrash iBrake can automatically bring the vehicle to a standstill without intervention by the driver.

### General information

The PostCrash iBrake can reduce the risk of a further collision and its consequences.

### At standstill

After coming to a halt, the brake is released automatically.

### Harder vehicle deceleration

In certain situations, it may be necessary to bring the vehicle to a stop more quickly than automatic braking with PostCrash iBrake.

To do this, quickly apply extra force to the brake. The brake pressure will then be higher than the brake pressure generated by automatic braking. Automatic braking with PostCrash iBrake is canceled.

### Abort automatic braking

It may be necessary to cancel PostCrash iBrake automatic braking in certain situations, e.g., when making an evasive maneuver.

Abort automatic braking:



- ▶ By depressing the brake pedal for slightly longer.
- ▶ By pressing the accelerator pedal for slightly longer.

## Fatigue Alert

### Principle

The Fatigue Alert break recommendation feature can detect when the driver is fatigued or less alert during long, monotonous trips, for instance on highways. This function recommends taking a break.

### Safety information

#### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing one's physical state. An increasing lack of alertness or fatigue may not be detected or not be detected in time. There is a risk of accident, injury, and property damage. Make sure that the driver is rested and alert. Adjust driving style to traffic conditions.

### Break recommendation

#### Function

Once a trip is started, this function is trained to the driver, enabling it to detect when the driver is less alert or is fatigued.

This procedure takes, for example, the following criteria into account:

- ▶ Personal driving style, for instance steering behavior.
- ▶ Driving conditions, for instance time, length of trip.
- ▶ Depending on vehicle equipment and national-market version: Driver's attention by the Driver Attention Camera.

This function activates at speeds greater than approx. 43 mph /70 km/h and can also display a break recommendation.

### Setting break recommendation

The break recommendation can be switched on, off and adjusted via iDrive.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Fatigue Alert"
7. Select the desired setting.

Despite this function being off, some driver assistance systems may issue break recommendations.

### Display

If the driver becomes less alert or fatigued, a message is displayed in the control display with the recommendation to take a break.

During the display, various settings can be selected.

The system is reset approx. 45 minutes after parking the vehicle. A break recommendation can only be displayed again after this time has elapsed.

### System limits

The Fatigue Alert system may be limited. If the system is limited, either no warning may be issued or an unwarranted warning may be issued.

The break recommendation function may be limited in the following situations:

- ▶ If the time is set incorrectly.
- ▶ With a sporty driving style such as during rapid acceleration or when cornering fast.
- ▶ In active driving situations such as when changing lanes frequently.

- ▶ When the road condition is poor.
- ▶ In the event of strong side winds.

Depending on the light conditions, these light sources can be visible when the vehicle is in standby mode.

## Driver Attention Camera

### Principle

Depending on vehicle equipment and national-market version, an infrared camera in the instrument cluster monitors the driver's behavior and line of sight.

### General information

The attentiveness of the driver is analyzed, for example, by evaluating their gaze direction and how far their eyes are open.

### Functional requirements

For full operability, make sure that the field of view of the Driver Attention Camera is not obstructed.

The steering wheel and the height of the driver's seat must be adjusted so that the driver's entire face is within the camera's field of view. Make sure that the camera's field of view is not obstructed by the steering wheel rim or hub.

### Overview



The Driver Attention Camera is located centrally in the upper area of the instrument cluster.

Depending on equipment, additional infrared light sources are located at the sides.

### System limits

The Driver Attention Camera may be limited in the following situations:

- ▶ When the Driver Attention Camera is covered by the steering wheel.
- ▶ With sunglasses with high protection from infrared light.

# Driving stability control systems

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Antilock Braking System

### Principle

The Antilock Braking System prevents locking of the wheels during braking.

You remain able to steer your vehicle even during full braking, which increases active driving safety.

### General information

The Antilock Braking System is ready after each time drive-ready state is turned on.

### Malfunction



The indicator light in the instrument cluster illuminates.



A Check Control message is displayed.

- ▶ The Antilock Braking System is not available.
- ▶ Steerability is limited during full braking.

Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

## Brake assistant

The brake assistant automatically applies maximum braking assistance when the brake pedal is depressed quickly. This reduces the braking distance to a minimum for full braking.

To make full use of braking assistance, do not reduce the pressure on the brake pedal during full braking.

## M Setup

### Principle

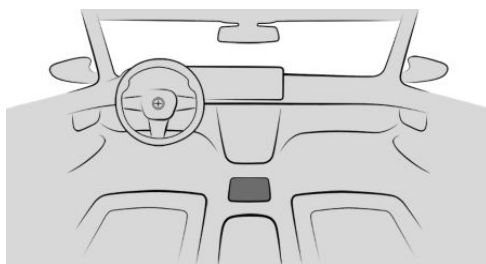
The SETUP button is used to configure various driving dynamics and drive systems. In addition, the M1/M2 buttons on the steering wheel can be used to configure and bring up two different settings.

### General information

When the drive-ready state is switched on after the idle state, an efficient vehicle condition is active by default.

### Overview

#### Button in the center console





## Buttons on the steering wheel

| Button                                                                           | Function          |
|----------------------------------------------------------------------------------|-------------------|
|  | M1 configuration. |
|  | M2 configuration. |

## Settings

The SETUP button and M1/M2 buttons on the steering wheel can be used to configure the following systems:

| Icon                                                                               | System                                                                                                                                                          |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | "Drivetrain": Drive, refer to page <a href="#">136</a> , programs.                                                                                              |
|    | "Energy recovery": Energy recovery modes, refer to page <a href="#">122</a> .                                                                                   |
|    | "Chassis": Programs of Adaptive M suspension, refer to page <a href="#">282</a> , and settings of Integral Active Steering, refer to page <a href="#">225</a> . |
|   | "Steering": Programs of Servotronic, refer to page <a href="#">220</a> .                                                                                        |
|  | "Drivelogic": Drivelogic, refer to page <a href="#">129</a> , programs.                                                                                         |
|  | "Brake": Programs of brake, refer to page <a href="#">221</a> .                                                                                                 |
|  | "M xDrive": Programs of M xDrive, refer to page <a href="#">224</a> .                                                                                           |
|  | "M Sound" Sound control, refer to page <a href="#">137</a> .                                                                                                    |

The M1/M2 buttons on the steering wheel can also be used to configure the following systems:

| Icon                                                                              | System                                                                                                                                |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  | "M HYBRID": Hybrid modes of M Hybrid, refer to page <a href="#">135</a> .                                                             |
|  | "Transmission": Shift modes, Drive mode, refer to page <a href="#">127</a> , and Sequential mode, refer to page <a href="#">127</a> . |
|  | "DSC": Dynamic Stability Control, refer to page <a href="#">221</a> , and M Dynamic Mode, refer to page <a href="#">223</a> .         |

## Operation via SETUP

### General information

The settings from the SETUP button are applied directly. The settings are not saved.

### Configuring M Setup

-  Press the button.
- Select the desired setting.

## Operation via M1/M2

### General information

The settings for the driving dynamics and drive systems can be configured for the M1/M2 buttons and retrieved if required.

With activated M1 or M2 configuration, any changes to the setting are immediately applied.

When M1/M2 is deactivated or reset, the driving dynamics and drive systems are reset to their default settings.

## Safety information

### WARNING

Depending on the setting, Dynamic Stability Control may be restricted or not available when the M1 or M2 button is activated. There is a risk of accident, injury, and property damage. Note the settings for Dynamic Stability Control in iDrive and take any necessary action. Modify your driving style and react, if necessary.

## Configuring M1/M2

1.  Press the button.
2. "M1 CONFIGURATION" or "M2 CONFIGURATION"
3. Select the desired setting.

The individual settings are stored for the configuration currently in use.

Alternatively, current system settings can be directly saved to M1 or M2. To do this, press and hold the desired button on the steering wheel until an acoustic signal sounds.

## Activating M1/M2

Press the corresponding button on the steering wheel:

- ▷  Activate M1.
- ▷  Activate M2.

"M1 CONFIGURATION" or "M2 CONFIGURATION": If DSC OFF or M Dynamic Mode is set, a message is displayed on the instrument cluster. This message is confirmed by pressing the button again.

## Disabling M1/M2

Press the corresponding button on the steering wheel.

## Resetting M1/M2

1.  Press the button.
2. "M1 CONFIGURATION" or "M2 CONFIGURATION"
3. "Reset"
4. "Reset M1 settings."

To cancel resetting: "Cancel"

## Display in the instrument cluster

| Icon                                                                               | Description                                                                                                                                 |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|   | Icon illuminates: Corresponding configuration is activated.                                                                                 |
|   |                                                                                                                                             |
|   | Icon illuminates and "Function cannot currently be activated." appears: Configuration cannot be activated due to current driving situation. |
|  | Reactivate configuration when the lettering is not illuminated.                                                                             |

## M MODE

### Principle

Driver assistance and collision warning systems can be adapted to the situation via M MODE.

The display on the instrument cluster and the Head-up display view change with the selected drive mode.

## General information

The following driving modes are available:

- ▷ "ROAD"
- ▷ "SPORT"
- ▷ Depending on the equipment: "TRACK"

The view on the instrument cluster changes depending on the selected drive mode.

## Safety information

### **WARNING**

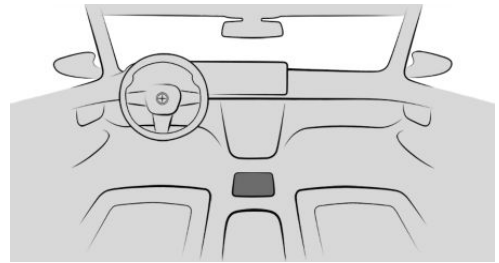
The system cannot serve as a substitute for the driver's personal judgment in assessing visibility and traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

### **WARNING**

Indicators and warnings cannot serve as a substitute for the driver's personal judgment. Due to its limits, the system may not issue warnings or responses, or these may be issued late or in a manner that is not consistent with their normal use. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Overview

### Button in the vehicle



## Driving modes

### ROAD drive mode

- ▷ All available collision warning systems are switched on.
- ▷ All available driver assistance systems are active.

ROAD drive mode is activated after drive-ready state is switched on.

### SPORT drive mode

Depending on the equipment, the following systems are deactivated:

- ▷ Lane Departure Warning.
- ▷ Side Collision Protection.
- ▷ Manual Speed Limiter.
- ▷ Cruise Control.
- ▷ Active Cruise Control with Distance Control.
- ▷ Steering Assistant.
- ▷ Assisted Driving Mode Plus.
- ▷ Lane Change Assistant.

The vehicle automatically switches to ROAD driving mode when you activate certain systems.

## TRACK driving mode

In addition to the deactivated systems in SPORT drive mode, the following systems are deactivated, depending on vehicle equipment:

- ▷ Speed Limit Info.
- ▷ Forward Collision Mitigation.
- ▷ Active Blind Spot Detection.
- ▷ Traffic Light and Sign Warning.
- ▷ Rear-End Collision Preparation.
- ▷ Emergency Stop Assistant.
- ▷ Active Protection.
- ▷ Hazard flashing with hard braking right before standstill is deactivated.
- ▷ Control display is switched off.
- ▷ The functions of the entertainment system are switched off.

## Selecting the driving mode

ROAD and SPORT drive modes can only be enabled when drive-ready state is switched on.

TRACK drive mode can only be enabled when the vehicle is stationary or driving at a very low speed.

1.  Press the button.
2. Select the desired setting.

In addition, the collision warning systems can be adjusted.

Additional information:

Collision warning systems, refer to page [179](#).

## Display

The display changes according to the drive mode selected. The view can be configured individually.

## Servotronic

### Principle

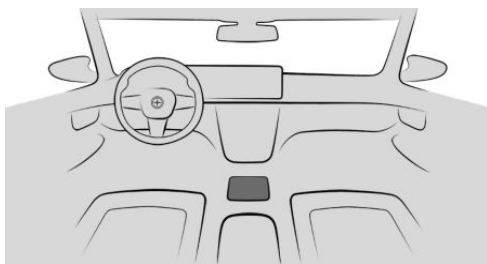
Servotronic is a speed-dependent power steering function.

The system provides the steering force with more support at low speeds than at higher ones. This makes it easier to park, for instance, and makes steering firmer when driving at faster speeds.

Furthermore, the steering force adapts to the driving mode to convey a firm, sporty feel or a comfortable steering response.

### Overview

#### Button in the vehicle



## Programs

| Program   | Steering force tuning                           |
|-----------|-------------------------------------------------|
| "COMFORT" | Low steering forces, good roadway feedback.     |
| "SPORT"   | High steering forces, maximum roadway feedback. |

## Selecting a program

### Using the button



Press the button and select the desired program on the control display.

### Via iDrive

Servotronic settings can be configured in M Setup.

Additional information:

M Setup, refer to page [216](#).

### Display in the instrument cluster



When the display for M Setup is activated in the instrument cluster, the selected program is displayed.

Additional information:

Central display area, refer to page [153](#).

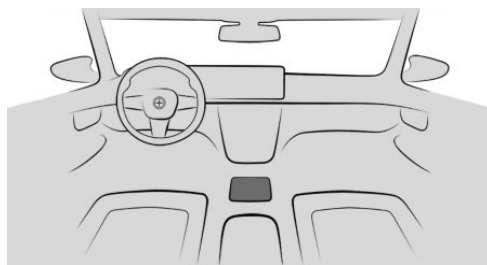
## Brake

### Principle

The sensitivity of the brake pedal motions to the braking response can be adjusted.

### Overview

#### Button in the vehicle



SETUP

## Programs

| Program   | Response characteristics |
|-----------|--------------------------|
| "COMFORT" | Comfortable.             |
| "SPORT"   | Direct.                  |

### Selecting a program

#### Using the button



Press the button and select the desired program on the control display.

#### Via iDrive

Brake settings can be configured in M Setup.

Additional information:

M Setup, refer to page [216](#).

### Display in the instrument cluster



When the display for M Setup is activated in the instrument cluster, the selected program is displayed.

Additional information:

Central display area, refer to page [153](#).

## Dynamic Stability Control

### Principle

Dynamic Stability Control helps keep the vehicle on a steady course in critical driving situations. The drive power is reduced depending on the situation, and wheels can be braked individually.

### General information

The system detects the following unstable driving conditions, for instance:

- ▷ Skidding, which can lead to oversteering.
- ▷ Loss of adhesion of the front wheels, which can lead to understeering.

## Safety information

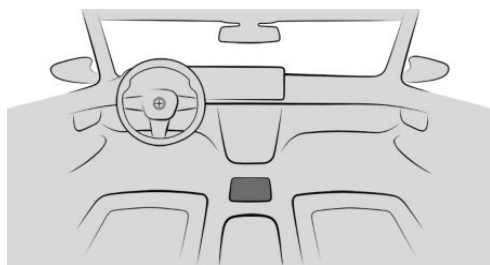
### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

When driving with a roof load, e.g., roof bars, the vehicle's center of gravity is higher. This increases the risk of the vehicle tipping in critical driving situations. There is a risk of accident, injury, and property damage. Drive with roof load only with activated Dynamic Stability Control.

## Overview



Dynamic Stability Control

## Activating/deactivating Dynamic Stability Control

### General information

Dynamic Stability Control is automatically activated whenever drive-ready state is switched on.

If Dynamic Stability Control is deactivated, driving stability is limited when accelerating and cornering.

To support driving stability, reactivate Dynamic Stability Control as soon as possible.

### Activating/deactivating the system

1.  Press the button to open the menu.
2. "DSC OFF"  
Dynamic Stability Control is deactivated.
3.  Press the button again to reactivate Dynamic Stability Control.

After deactivating Dynamic Stability Control, the program for M xDrive can be selected directly.

Additional information:

M xDrive, refer to page [224](#).

Dynamic Stability Control can be configured for use with the M1 or M2 button.

Additional information:

M Setup, refer to page [216](#).

### Displays in the instrument cluster



View when Dynamic Stability Control is deactivated.



Indicator light illuminates: Dynamic Stability Control is deactivated.



Indicator light pulsates: Dynamic Stability Control is regulating the driving power and the brake power. The vehicle is stabilized. Reduce speed and modify your driving style to the driving circumstances.



Indicator light is illuminated: Dynamic Stability Control has malfunctioned or is initializing. Driving stabilization is restricted or has failed.

If the indicator light illuminates continuously, have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.

## M Dynamic Mode

### Principle

M Dynamic Mode allows a ride with high longitudinal and lateral acceleration but with limited driving stability.

Only in the absolute limit range does the system intervene for stabilization by reducing the engine power and by brake interventions on the wheels. In this driving condition, additional steering corrections may be necessary.

### General information

Depending on vehicle equipment, the active M xDrive mode is: "4WD SPORT" when M Dynamic Mode is activated.

You may find it useful to briefly activate the system under the following special circumstances:

- ▶ When rocking the vehicle free from deep snow or driving off from loose ground.
- ▶ With an increased need for dynamics or longitudinal acceleration, for instance when driving on a race track.

To support driving stability, reactivate Dynamic Stability Control.

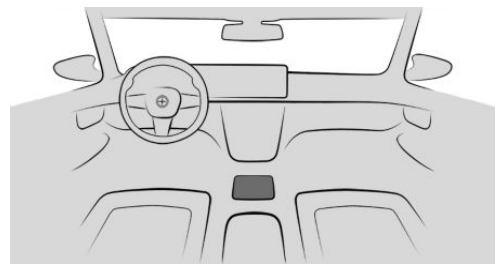
## Safety information

### WARNING

When M Dynamic Mode is activated, stabilizing interventions are carried out only to a reduced extent. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate. Do not jerk the steering wheel in response to a warning.

## Overview

### Button in the vehicle



Dynamic Stability Control

### Activate/deactivate the function

1.  Press the button to open the selection menu.
2. "MDM"  
M Dynamic Mode is activated.
3.  Press the button again to reactivate Dynamic Stability Control.

## Display in the instrument cluster

| Icon                                                                             | Description                                                                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  | Display active and indicator light illuminates:<br>M Dynamic Mode is activated.                                 |
|  |                                                                                                                 |
|  | Dynamic Stability Control indicator light also flashes:<br>M Dynamic Mode controls the driving and brake power. |
|  | Indicator lights illuminate:<br>M Dynamic Mode or Dynamic Stability Control may not be operational.             |
|  |                                                                                                                 |

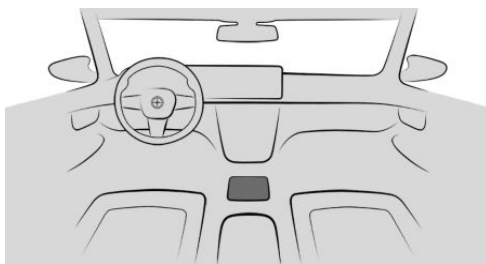
## M xDrive

### Principle

M xDrive is the all-wheel-drive system of the vehicle. The M xDrive and the Dynamic Stability Control work together to optimize the traction and driving dynamics. M xDrive variably distributes the drive forces to the front and rear axles as demanded by the driving situation and road condition.

## Overview

### Button in the vehicle



### Programs

There are three M xDrive programs available when the DSC Dynamic Stability Control is deactivated.

| Program     | Distribution of driving forces                      |
|-------------|-----------------------------------------------------|
| "4WD"       | Front and rear axles.                               |
| "4WD SPORT" | Front and rear axles.<br>Main component, rear axle. |
| "2WD"       | Rear axle.                                          |

A program is activated automatically in the following situations:

- ▶ When the drive-ready state is switched on: "4WD".
- ▶ When the M Dynamic Mode is activated: "4WD SPORT".
- ▶ When Dynamic Stability Control is deactivated: "4WD".

### Selecting a program

#### General information

Changing programs in dynamic driving situations is not possible.



## Using the button

 Press the button and select the desired program on the control display.

## Via iDrive

M xDrive settings can be configured in M Setup.

Additional information:

M Setup, refer to page [216](#).

## Display in the instrument cluster

| Icon                                                                               | Description                                                                                                                                                                                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | The indicator light is illuminated and 4WD appears in the instrument cluster:<br>Program is activated.                                                                                     |
|    | The indicator light is illuminated and 4WD Sport appears in the instrument cluster:<br>Program is activated.                                                                               |
|   | 2WD display is active and indicator light illuminates:<br>Program is activated.                                                                                                            |
|  |                                                                                                                                                                                            |
|  | Warning light illuminates:<br>M xDrive may not be operational.<br>Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop. |

## Active M differential

The active M differential provides for continuously variable locking of the rear axle differential depending on the driving situation. This prevents an individual rear wheel from spinning even when the Dynamic Stability Control is turned off and in M Dynamic Mode, and thus enables optimum traction in all driving situations.

The driver is responsible adapting his or her driving style to the situation.

## Integral Active Steering

### Principle

The Integral Active Steering increases the maneuverability of the vehicle and makes a more direct steering response possible. Driving stability is also increased at high speeds.

### General information

Integral Active Steering combines variable sport steering with active rear-wheel steering.

The rear-wheel steering acts to increase maneuverability at low speeds by turning the rear wheels slightly in the opposite direction to the front wheels.

At higher speeds, the rear wheels are turned in the same direction as the front wheels. For instance, this results in a harmonious lane change.

In critical driving situations, integral active steering can stabilize the vehicle by automatically steering the rear wheels, for example e.g. when oversteering.

### Setting

The system offers several different settings.

Using the settings in M setup, you can set the system to comfortable or dynamic.

Additional information:



M Setup, refer to page [216](#).

## Using snow chains

In order to guarantee free movement of the wheels when operating with snow chains, rear-wheel steering must be turned off when snow chains are mounted.

Additional information:

Rear-wheel steering during operation with snow chains, refer to page [350](#).

## Malfunction



The indicator light in the instrument cluster illuminates.

A Check Control message is displayed.

The steering system may not be operational. Integral Active Steering assistance may no longer be provided.

- ▶ Larger steering movements are required at low speeds.
- ▶ The response of the vehicle is more sensitive in higher speed ranges.
- ▶ Proceed cautiously and practice anticipatory driving.

Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

# Driver assistance systems

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Speed warning

### Principle

The speed warning can be used to set a speed limit. A warning will be issued when this speed limit is exceeded.

### General information

Another speed warning is given when the set speed limit is exceeded again after it has dropped by 3 mph /5 km/h.

### Settings

The Speed Limit Warning can be activated or deactivated. In addition, the speed limit for the warning can be configured.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Safety and warnings"
6. "Speed warning"
7. Select the desired setting.

## Speed Limit Info

### Speed Limit Info

#### Principle

Speed Limit Info shows the currently valid speed limit in the instrument cluster and, if necessary, the Head-up display.

#### General information

The camera in the area of the interior mirror detects road signs at the edge of the road as well as overhead sign posts.

Road signs with supplementary signs are considered and compared with the vehicle's on-board data. The road sign will then be either displayed or ignored depending on the situation in the instrument cluster and the Head-up display.

The system may also show speed limits that apply to routes that are not signposted if the navigation system has current map data.

For Speed Limit Info to function correctly, current map data for the country in which the vehicle is operated must be downloaded.

For information on the current map version and map updates, see Map update in the Navigation system chapter.

Without map data, the system is subject to certain technical limitations. Road signs with speed limitations are detected and displayed only. Speed limits due to entering towns/cities, highway signs, etc., are not displayed. Speed limits with supplementary signs are always displayed.

Additional information:

- ▶ Owner's Manual for Navigation, Entertainment, and Communication, refer to page 6.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

## Sensors

The system is controlled by a camera behind the windshield.

## Display

### Speed Limit Info

| Icon                                                                               | Description                                                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|  | Current speed limit.<br>Depending on the national-market version, it is possible to switch between the units of measurement. |
|  |                                                                                                                              |
|  | No data on current speed limit available.                                                                                    |
|  | Speed Limit Info deactivated.                                                                                                |

## Warning signals

Depending on the settings, an acoustic signal sounds if the detected speed limit is exceeded or the speed limit changes. The display also flashes if the detected speed limit is exceeded.

## Settings

Individual settings can be configured for Speed Limit Info, e.g., warnings issued if the speed is exceeded or the permissible maximum speed changes.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Speed Limit Assistant"
7. Select the desired setting.

## System limits

### System limits of the sensors

Additional information:

- ▶ Camera, refer to page 39.

### Functional limitations

The system function may be limited and may provide incorrect information in the following situations:

- ▶ Road signs are fully or partially concealed by objects, stickers, or paint.
- ▶ Road signs do not comply with the standard.
- ▶ In areas that are not included in the navigation system map data.
- ▶ If navigation system map data is invalid, outdated, or unavailable.
- ▶ When roads deviate from the navigation such as due to changes in road layout.



- When driving very close to the vehicle in front of you.
- When passing buses or trucks with road signs applied to them.
- In case of electronic road signs.
- When road signs that are valid for a parallel road are detected.
- In the presence of country-specific road signs or road layouts.

## Speed control systems

### Principle

The speed control systems provide support when driving.

### General information

Depending on the equipment, the speed control systems include the following individual systems.

- Cruise Control, refer to page 231.
- Distance Control, refer to page 233.
- Assisted Driving Mode, refer to page 239.
- Assisted Driving Mode Plus, refer to page 246.

Depending on the equipment and national-market version, the individual systems are enhanced with additional functions.

Speed control systems are only available in ROAD drive mode.

Some functions can be operated via voice control.

Additional information:

- M Mode, refer to page 218.
- BMW Intelligent Personal Assistant, refer to page 58.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

## Overview

### Buttons on the steering wheel

#### Button Function



Turn last active speed control system on/off.

Interrupt and continue speed control systems.



Select the desired speed control system.



Store current speed.

Speed Limit Assistant: Accept suggested speed manually.



Set speed.

## Turning on/selecting speed control systems

1.  Turn on: Press the button.
2.  Select: When the system is active, press the button repeatedly until the de-

sired speed control system is displayed in the toolbar in the instrument cluster.

### Icon Speed control system



Cruise Control.



Distance Control.



Assisted Driving Mode: Cruise Control with Distance Control, Steering Assistance with lane keeping.

The activated system is shown in green.

The system is shown in white when the system can be activated.

The system is grayed out if the system has failed or if the functional requirements are not met.

## Interrupting speed control systems automatically

Depending on the system, speed control systems are interrupted automatically, for instance in the following situations:

- ▶ When moving from selector lever position D to P, N, or R.
- ▶ While Dynamic Stability Control regulates driving stability.
- ▶ While Dynamic Stability Control is disabled.
- ▶ While M Dynamic Mode is activated.
- ▶ When braking manually.

## Interrupting speed control systems manually



- ▶ Press the button.



- ▶ Press button to select another speed control system.

## Continuing speed control systems



Press the button.

## Turning off speed control systems automatically

The speed control systems turn off automatically when the drive-ready state is turned off.

## Turning off speed control systems manually



Press and hold this button.

The speed control systems are turned off and the displays extinguish.

## Adjusting speed values



Repeatedly press the rocker button on the steering wheel up or down until the desired value is set.

- ▶ Each time the rocker button is pressed to the resistance point, the set speed increases or decreases by 1 mph /1 km/h.
- ▶ Each time the rocker button is pressed past the resistance point, the set speed changes by a maximum of 5 mph /10 km/h.

## Display in the instrument cluster

### Marking on speedometer



A mark for the set speed appears on the speedometer.

- ▶ Green marking: System is active.
- ▶ Gray marking: System is interrupted.
- ▶ No marking: System is switched off.



## Notifications

In addition to the respective indicator lights, notifications are displayed for some functions.

The scope of notifications can be set.

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Notifications"
7. Select the desired setting.

## Cruise Control

### Principle

With the Cruise Control, a set speed can be adjusted using the buttons on the steering wheel. The system maintains the set speed. The system accelerates and brakes automatically as needed.

### General information

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

Depending on the vehicle settings, the Cruise Control settings may change under certain conditions.

### Safety information

#### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready

to take over steering and braking at any time, and actively intervene where appropriate.

#### WARNING

The use of the system can lead to an increased risk of accidents in the following situations, for instance:

- ▷ On winding roads.
- ▷ With high traffic volume.
- ▷ On slippery roads, in fog, snow, or wet conditions, or on a loose road surface.

There is a risk of accident, injury, and property damage. Only use the system if driving at constant speed is possible.

#### WARNING

The set speed can be incorrectly adjusted or called up by mistake. There is a risk of accident, injury, and property damage. Adjust the set speed to the traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

## Overview

### Buttons on the steering wheel

#### Button Function



Turn last active speed control system on/off.

Interrupt and continue speed control systems.



Select the desired speed control system.

## Button Function

 Store current speed.  
Speed Limit Assistant: Accept suggested speed manually.

 Set speed.

## Turning on the Cruise Control

In vehicles with Distance Control: Change the mode of the Cruise Control to Cruise Control without distance control.

Additional information:

Distance Control, refer to page [233](#).

In vehicles without Distance Control: Turn on the Cruise Control with the buttons on the steering wheel.

1.  If necessary, press the button.

2.  If necessary, press the button repeatedly until the Cruise Control is selected.

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

The indicator lights on the instrument cluster illuminate and the mark on the speedometer is set to the current speed.

The driving mode changes or Dynamic Stability Control activates when Cruise Control is switched on.

## Turning the speed control system off/interrupting

The speed control system can be turned off or canceled automatically or manually.

Additional information:

Speed control systems, refer to page [229](#).

## Adjusting the speed

### Store/maintain speed

 Press the rocker button up or down once while the system is stopped.

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

The saved speed is shown on the speedometer.

When the Speed Limit Assistant is not active, the current speed can also be stored by pressing a button:

 Press the button.

### Changing the speed

 Repeatedly press the rocker button up or down until the desired speed is set.  
If active, the displayed speed is stored and the vehicle reaches the stored speed when the road is clear.

The maximum adjustable speed depends on the vehicle and the set hybrid system characteristic.

Press rocker button to resistance point and hold: The vehicle accelerates or decelerates without the accelerator pedal being pressed.

After the rocker button is released, the vehicle maintains the final speed achieved. Pressing the switch beyond the resistance point causes the vehicle to accelerate more rapidly.



## Continuing Cruise Control

### At the stored speed

#### **WARNING**

The set speed can be incorrectly adjusted or called up by mistake. There is a risk of accident, injury, and property damage. Adjust the set speed to the traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

An interrupted Cruise Control can be continued by calling up the stored speed. The difference between the current speed and the stored speed should be as little as possible.



Press the button with the system interrupted.

Cruise Control is continued with the stored values.

In the following cases, the stored speed value is deleted and cannot be called up again:

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

### At the current speed



Press the rocker button up or down to continue Cruise Control at the current speed.

### Speed Limit Assistant: At the suggested speed



When a speed is suggested, press the button to accept the Cruise Control at the suggested speed.

## Displays in the instrument cluster

### Marking on speedometer



- ▶ Green marking: System is active, the marking indicates the desired speed.
- ▶ Gray marking: System is interrupted, the marking indicates the stored speed.
- ▶ No marking: System is switched off.

### Indicator light



Indicator light green: System is active.

## Displays in the Head-up display

Depending on the equipment, some system information can also be displayed in the Head-up display.

## System limits

Do not use Cruise Control when tow-starting/towing.

## Distance Control

### Principle

With the Distance Control, a distance to a vehicle driving ahead can be adjusted in addition to the Cruise Control.

### General information

The system maintains the set speed on clear roads. The vehicle accelerates or brakes automatically.

If a vehicle is driving ahead of you, the system adjusts the speed of the vehicle so that the set distance to the vehicle ahead is maintained. The speed is adjusted as far as the given situation allows.



The distance can be adjusted at several levels. For safety reasons, it depends on the respective speed.

If the preceding vehicle brakes to a stop then drives off again shortly afterward, Distance Control is capable of detecting this depending on vehicle equipment and ambient conditions.

Otherwise, drive off independently such as by stepping on the accelerator pedal or by pressing the button for the speed setting on the steering wheel.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### **WARNING**

An unsecured vehicle can begin to move and possibly roll away. There is a risk of accident, injury, and property damage. Before leaving the vehicle, secure the vehicle against rolling away.

In order to ensure that the vehicle is secured against rolling away, observe the following:

- ▷ Set the parking brake.
- ▷ Make sure that selector lever position P is engaged.

- ▷ On uphill grades or on downhill slopes, turn the front wheels in the direction of the curb.
- ▷ On uphill grades or on downhill slopes, also secure the vehicle, for instance with a wheel chock.

### **WARNING**

The set speed can be incorrectly adjusted or called up by mistake. There is a risk of accident, injury, and property damage. Adjust the set speed to the traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

### **WARNING**

Risk of accident is greater when there is a high speed differential to other vehicles, for instance in the following situations:

- ▷ When approaching a slowly moving vehicle at speed.
- ▷ Vehicle suddenly swerving into own lane.
- ▷ When approaching stationary vehicles at speed.

There is a risk of injury and danger to life. Watch surrounding traffic closely and actively intervene where appropriate.

# Overview

## Buttons on the steering wheel

| Button                                                                           | Function                                                                                       |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|  | Turn last active speed control system on/off.<br>Interrupt and continue speed control systems. |
|  | Select the desired speed control system.                                                       |
|  | Store current speed.<br>Speed Limit Assistant: Accept suggested speed manually.                |
|  | Set speed.                                                                                     |

## Sensors

The system is controlled by the following sensors:

- ▶ Camera behind the windshield.
- ▶ Front radar sensor.
- ▶ Front ultrasonic sensors.
- ▶ Depending on vehicle equipment, via the front, side radar sensors.
- ▶ Driver Attention Camera, depending on vehicle equipment and national-market version.

Additional information:

- ▶ Sensors of the vehicle, refer to page 39.
- ▶ Driver Attention Camera, refer to page 215.

## Application range

The system is best used on well-maintained roads.

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

Depending on vehicle equipment, higher desired speeds can also be selected after switching to Cruise Control without Distance Control.

For higher set speeds, it may be necessary to use the combustion engine.

The system can also be activated when stationary.

Do not use Cruise Control and Distance Control when tow-starting/towing.

## Turning on Cruise Control with Distance Control

-  If necessary, press the button.
-  If necessary, press the button repeatedly until Distance Control is selected.

Cruise Control with Distance Control is active. The current speed is maintained and stored as desired speed.

The selected distance to a vehicle driving ahead is maintained.

The indicator lights on the instrument cluster illuminate and the mark on the speedometer is set to the current speed.

The driving mode changes or Dynamic Stability Control activates when Distance Control is switched on.

## Adjusting the speed

The speed can be set using the rocker button on the steering wheel.

Additional information:

Cruise Control, refer to page 231.

## Interrupting Cruise Control with Distance Control automatically

The system is stopped automatically in the following situations, for example:



- ▷ When braking manually.
- ▷ Selector lever position D is disengaged.
- ▷ While Dynamic Stability Control is disabled.
- ▷ While M Dynamic Mode is activated.
- ▷ While Dynamic Stability Control regulates driving stability.
- ▷ Driver's seat belt and driver's door are opened.
- ▷ The system has not detected objects for an extended period, for instance on a road with very little traffic without curb or shoulder markings.
- ▷ The detection range of the radar is impaired, for instance by contamination or heavy precipitation.
- ▷ After a longer stationary period when the vehicle has been braked to a stop by the system.

## Turning the speed control system off/interrupting

The speed control system can be turned off or canceled automatically or manually.

Additional information:

Speed control systems, refer to page 229.

## Continuing Cruise Control while driving

### WARNING

The set speed can be incorrectly adjusted or called up by mistake. There is a risk of accident, injury, and property damage. Adjust the set speed to the traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

An interrupted Cruise Control can be continued by calling up the stored speed. The difference between the current speed and the stored speed should be as little as possible.

Additional information:

Cruise Control, refer to page 231.

## Continuing Cruise Control while vehicle is stationary

In certain situations, this system requires the driver to confirm their intention to drive off.

The displays show the following:



The mark on the speedometer illuminates gray.



The indicator light illuminates green.

Cruise Control can be continued as follows:

- ▷ Pressing the accelerator pedal.
- ▷  Press the rocker button on the left side of the steering wheel.
- ▷  Press the button on the left side of the steering wheel.

## Distance

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment. Due to the system limits, deceleration can be late. There is a risk of accident, injury, and property damage. Be aware of the surrounding traffic situation at all times. Adjust the distance to the traffic and weather conditions and maintain the prescribed safety distance, possibly by braking.



## Adjusting the distance

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Distance Control"
7. "Distance"
8. Select the desired setting.

## Automatic adaptation of the distance

Depending on the equipment and national-market version: The system can be set so that the distance to the vehicle in front is automatically adjusted within the set distance. This system analyzes the traffic situation and ambient conditions.

If automatic adjustment is enabled, the distance is adjusted in the following situations, for example:

- ▶ With poor visibility, the distance is slightly increased.
- ▶ With heavy traffic, the distance is slightly decreased.

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Distance Control"
7. "Situational distance control"

## Changing between Cruise Control with/without Distance Control

### Safety information

#### **WARNING**

The system does not react to traffic driving ahead of you, but instead maintains the stored speed. There is a risk of accident, injury, and property damage. Adjust the set speed to the traffic conditions and brake as needed.

## Changing over the Cruise Control mode

Turning Cruise Control without Distance Control on or off:

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Distance Control"
7. "Switch to Cruise Control"

The setting is reset when the vehicle is parked.

## Displays in the instrument cluster

### General information

Depending on the equipment version, the displays in the instrument cluster may vary.

### Marking on speedometer



- ▶ Green marking: System is active, the marking indicates the desired speed.
- ▶ Gray marking: System is interrupted, the marking indicates the stored speed.

- ▶ No marking: System is switched off.

## Indicator lights and warning lights

| Icon                                                                             | Description                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | White indicator light:<br>No Distance Control because accelerator pedal is being pressed.                                                                                                                                        |
|  | Indicator light illuminates green:<br>Vehicle has been detected ahead of you.<br>The vehicle icon goes out if no vehicle has been detected ahead of you.<br>Indicator light flashes green:<br>Preceding vehicle has driven off.  |
|  | Indicator light flashes gray:<br>Conditions are not adequate for the system to work.<br>The system was deactivated but applies the brakes until you actively resume control by pressing on the brake pedal or accelerator pedal. |
|  | Warning light flashes red and acoustic signal sounds:<br>Brake and make an evasive maneuver, if necessary.                                                                                                                       |

## Assisted View

Depending on the equipment and national-market version, information for the system is displayed in the Assisted View in the central display area of the instrument cluster.

Additional information:

Assisted View, refer to page [155](#).

## Displays in the Head-up display

### Set speed

Depending on the equipment, some system information can also be displayed in the Head-up display.

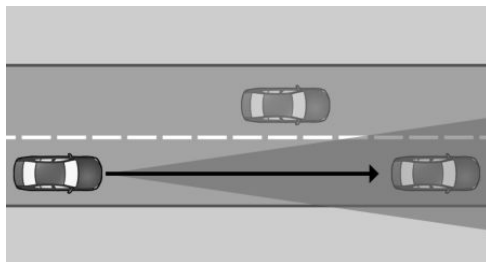
## System limits

### System limits of the sensors

Additional information:

- ▶ Sensors of the vehicle, refer to page [39](#).
- ▶ Driver Attention Camera, refer to page [215](#).

### Detection range



Sensors detect the traffic situation in their detection range.

The detection capability of the system and the automatic braking performance are limited.

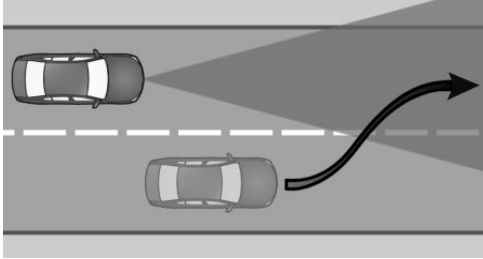
For instance, two-wheeled vehicles may not be detected.

### Deceleration

The system does not decelerate in the following situations:

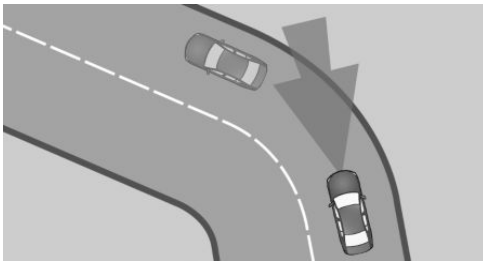
- ▶ For pedestrians or similarly slow-moving road users.
- ▶ For cross traffic.
- ▶ For oncoming traffic.

## Merging vehicles



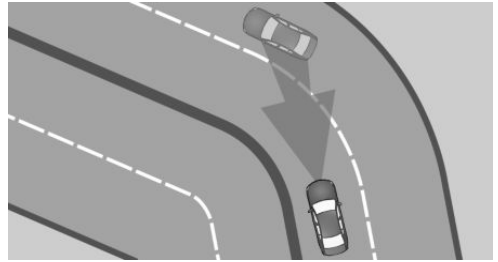
If a vehicle driving ahead of you suddenly merges into your lane, the system may not be able to automatically restore the selected distance. It may not be possible to restore the selected distance in certain situations, including if you are driving significantly faster than vehicles driving ahead of you, for instance when rapidly approaching a truck. When a vehicle driving ahead of you is reliably detected, the system requests that the driver intervene by braking and making an evasive maneuver, if needed.

## Cornering



When the set speed is too high for a curve, the speed is reduced slightly. Because curves may not be anticipated in advance, drive into a curve at an appropriate speed.

The system has a limited detection range. Situations can arise in tight curves where a vehicle driving ahead will not be detected or will be detected very late.



When you approach a curve the system may briefly report vehicles in the next lane due to the bend of the curve. If the system decelerates you may compensate for it by briefly accelerating. After releasing the accelerator pedal the system is reactivated and controls speed independently.

## Driving off

In some situations, the vehicle cannot drive off automatically; for example:

- ▶ On steep uphill grades.
- ▶ In front of bumps in the road.

In these cases, step on the accelerator pedal.

## Weather

Unfavorable weather or lighting conditions may result in the following restrictions:

- ▶ Worse vehicle detection.
- ▶ Short-term interruptions for vehicles that are already recognized.

Drive attentively, and react to the current surrounding traffic situation. If necessary, intervene actively, for instance by braking, steering or making an evasive maneuver.

## Assisted Driving Mode

### Principle

Assisted Driving Mode enhances Distance Control with Steering Assistance and lane keeping. The system assists the driver in keeping the vehicle within the lane. For this pur-

pose, the system executes supporting steering movements, for instance when cornering.

## General information

Depending on the speed, the system orients itself according to the lane boundaries or vehicles in front.

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

If a lane boundary is crossed, the system issues a warning by vibrating the steering wheel. The steering wheel vibration intensity can be adjusted.

Depending on the vehicle equipment and national-market version, the Driver Attention Camera in the instrument cluster monitors the driver's attention.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

The Cruise Control and Distance Control alerts also apply.

Additional information:

- ▶ Cruise Control, refer to page [231](#).
- ▶ Distance Control, refer to page [233](#).

## Overview

### Buttons on the steering wheel

| Button                                                                            | Function                                                                        |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|  | Turn last active speed control system on/off.                                   |
|                                                                                   | Interrupt and continue speed control systems.                                   |
|  | Select the desired speed control system.                                        |
|  | Store current speed.<br>Speed Limit Assistant: Accept suggested speed manually. |
|  | Set speed.                                                                      |

## Sensors

The system is controlled by the following sensors:

- ▶ Camera behind the windshield.
- ▶ Front radar sensor.
- ▶ Depending on the equipment: Radar sensors, side, front.
- ▶ Depending on the equipment: Radar sensors, side, rear.
- ▶ Sensors in steering wheel.
- ▶ Depending on the vehicle equipment and national-market version: Driver Attention Camera.

Additional information:

- ▶ Sensors of the vehicle, refer to page [39](#).
- ▶ Driver Attention Camera, refer to page [215](#).

## Functional requirements

- ▶ Depending on the equipment: Speed below 130 mph/210 km/h or 110 mph/180 km/h.
- ▶ Sufficient lane width.



- ▷ Hands on the steering wheel rim.
- ▷ Sufficiently wide curve radius.
- ▷ Drive in the center of the lane.
- ▷ The sensor system calibration process is complete.
- ▷ Distance Control is active.
- ▷ Seat belt on the driver's side fastened.
- ▷ Forward Collision Mitigation is active.
- ▷ Depending on the equipment:  
Side Collision Protection is active.

## Switching on Assisted Driving Mode

1.  If necessary, press the button.
2.  If necessary, press the button repeatedly until Assisted Driving Mode is selected.

 Indicator light illuminates gray.  
The system is on standby and does not manipulate steering movements.

System activates automatically as soon as all function conditions are fulfilled.

 The indicator light illuminates green.  
The system is active and helps to keep the vehicle in the lane.

When the system is switched on, the Forward Collision Mitigation and, depending on the equipment, the Side Collision Protection are active.

## Stopping Assisted Driving Mode automatically

The system interrupts the supporting steering movements automatically, for example in the following situations:

- ▷ Depending on the equipment: At a speed above 130 mph /210 km/h or 110 mph /180 km/h.
- ▷ After releasing the steering wheel.
- ▷ With strong steering intervention.
- ▷ When leaving own lane.
- ▷ When the turn signal is switched on or, depending on the vehicle equipment, when the driver turns the steering wheel while the turn signal is switched on.
- ▷ When the lane is too narrow.
- ▷ If a lane boundary is not detected and there is no vehicle driving in front.
- ▷ The Cruise Control with Distance Control is interrupted.
- ▷ The seat belt on the driver's side is unfastened.

 Indicator light illuminates gray.  
The system is on standby and does not manipulate steering movements.

System activates automatically as soon as all function conditions are fulfilled.

## Displays in the instrument cluster

| Icon                                                                                | Description                                                                                                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  | Indicator light illuminates gray:<br>The system is ready.                                                                                |
|  | Indicator light illuminates green:<br>The system is activated.<br>The system supports the driver in keeping the vehicle within the lane. |
|  | Warning light flashes yellow and steering wheel vibrates:<br>A lane boundary has been crossed.                                           |
|  | Warning light illuminates yellow and acoustic signal sounds:<br>System interruption is imminent.                                         |

| Icon | Description |
|------|-------------|
|------|-------------|



Warning light flashes red and acoustic signal sounds:

The system is switched off or will be interrupted very soon.



Warning light illuminates yellow:

The driver's hands are not currently gripping the steering wheel. The system is still active.

Grab the steering wheel with your hands.



Warning light illuminates red, acoustic signal sounds:



The driver's hands are not currently gripping the steering wheel or, depending on vehicle equipment and national-market version, the driver is not looking at the surrounding traffic. 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.

Immediately grasp the steering wheel with your hands and pay attention to the surrounding traffic.

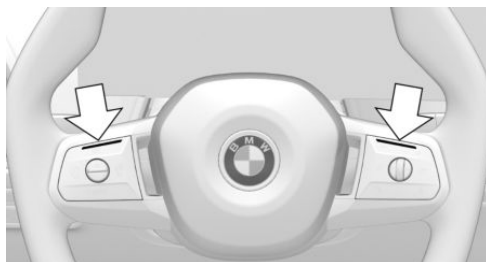
Depending on the vehicle equipment and national-market version, a Check Control message is displayed if the Driver Attention Camera detects that the driver is inattentive.

Depending on the equipment and national-market version, information for the system is displayed in the Assisted View in the central display area of the instrument cluster.

Additional information:

Assisted View, refer to page 155.

## Displays on the steering wheel



Similar to the instrument cluster views, the two LEDs above the keypads illuminate.

The steering wheel displays can be turned on/off.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Feedback via steering wheel"
6. "Light elements"
7. Select the desired setting.

## Displays in the Head-up display

Depending on the equipment, the system information can also be displayed in the Head-up display.

## Setting the intensity of the steering wheel vibration

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Feedback via steering wheel"
6. "Vibration intensity"
7. Select the desired setting.

This setting is applied to all collision warning systems.

## System limits

### General information

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

### Safety information

#### **WARNING**

Because of system limitations, this system may either not respond, or respond too late, incorrectly, or without cause. There is a risk of accident, injury, and property damage. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

The Cruise Control and Distance Control alerts also apply.

Additional information:

- ▷ Cruise Control, refer to page [231](#).
- ▷ Distance Control, refer to page [233](#).

### System limits of the sensors

Additional information:

- ▷ Cameras, refer to page [39](#).
- ▷ Radar sensors, refer to page [40](#).
- ▷ Driver Attention Camera, refer to page [215](#).

### Hands on the steering wheel

The sensors cannot detect hand-steering wheel contact in the following situations:

- ▷ Driving with gloves.
- ▷ Protective covers on the steering wheel.

### Weather

Unfavorable weather or lighting conditions may result in the following restrictions:

- ▷ Worse detection of vehicles and lane boundaries.
- ▷ Short-term interruptions in case of already detected vehicles and lane boundaries.

Drive attentively, and react to the current surrounding traffic situation. If necessary, intervene actively, for instance by braking, steering or making an evasive maneuver.

## Lane Change Assistant

### Principle

The Lane Change Assistant helps when changing lanes on multi-lane roads.

Lane changes can be triggered by operating the turn signal lever.

### General information

The system uses the Assisted Driving Mode sensors.

### Safety information

#### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

Federal, state or local laws differ and the use of this function may be prohibited or limited. Before use, check federal, state and local laws.

The Assisted Driving Mode alerts also apply.

Additional information:

Assisted Driving Mode, refer to page [239](#).

## Functional requirements

- ▶ The functional requirements for Assisted Driving Mode have been met.  
Assisted Driving Mode, refer to page [239](#).
- ▶ Driving on a road without pedestrians or cyclists and with physical barriers to oncoming traffic such as crash barriers.
- ▶ A vehicle has been detected at a sufficient distance behind your own vehicle since beginning the drive.
- ▶ Crossable lane boundaries are detected.
- ▶ Maximum speed approx.  
110 mph/180 km/h.
- ▶ The minimum speed is country-specific.

## Turning on/turning off Lane Change Assistant

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Assisted Driving"
7. "Lane Change Assistant"

## Changing lanes

1. Ensure that the traffic situation permits changing lanes.
2. Start the lane change.
  - ▶ To initiate the lane change, press the turn signal lever in the desired direction to the resistance point.
  - ▶ Depending on the vehicle equipment, the turn signal lever can also be pressed beyond the resistance point.

After a short time, Lane Change Assistant initiates a lane change.

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

## Canceling a lane change

The lane change can be canceled by steering movement into the opposite direction or by operating the turn signal in the opposite direction.

## Displays in the instrument cluster

| Icon                                                                              | Description                                                                                                                                                             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Steering wheel icon and lane change arrow icon are green:<br>The system performs a lane change in the arrow direction.                                                  |
|  | Steering wheel icon is green and line for lane boundary on respective side is gray:<br>The system detected the lane change request. Lane change not currently possible. |

Depending on the equipment and national-market version, information for the system is displayed in the Assisted View in the central display area of the instrument cluster.

Additional information:

Assisted View, refer to page [155](#).

## System limits

The Lane Change Assistant is subject to the system limits of Assisted Driving Mode.

Additional information:

- ▶ Assisted Driving Mode, refer to page [239](#).

## Lane change with active guidance

### Principle

Lane change with active guidance assists the driver when lane changes are necessary to reach a destination. A notice is also displayed on the instrument cluster. A slight jolt can also

be felt on the steering wheel, depending on national-market version and settings.

## General information

The system uses the Assisted Driving Mode sensors.

## Safety information

### **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

The Cruise Control, Distance Control, and Assisted Driving alerts also apply.

Additional information:

- Cruise Control, refer to page [231](#).
- Distance Control, refer to page [233](#).
- Assisted Driving Mode, refer to page [239](#).

## Functional requirements

- Cruise Control and Distance Control are activated.
- Driving on a highway or highway-like road.
- A situation-dependent minimum speed has been reached.
- The system detects a sufficiently large gap in traffic in the adjacent lane.
- A crossable lane boundary on the side of the desired lane change is detected.
- Destination guidance is active on the navigation system.

The function is not available when using navigation software via Apple CarPlay or Android Auto.

- The function must be available in the country in which the vehicle is driven.
- The Driver Attention Camera in the instrument cluster detects that the driver is paying attention to the surrounding traffic.

## Switching lane change on/off with active destination guidance

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Route and intersection assistant"
7. "Lane Guiding with Navigation"

## Switching the steering wheel jerk on/off

You can switch the steering wheel jerk assistance on/off.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Route and intersection assistant"
7. "Steering wheel impulse"

## Changing lanes

If lane changes are necessary to reach a navigation destination, a corresponding notice is displayed on the instrument cluster. In addition, a slight jerk can be felt on the steering wheel.

To change lanes, follow the instructions on the instrument cluster.

-  The system detects a suitable gap in the flow of traffic in the adjacent lane. A green checkmark is displayed on the lane change icon on the instrument cluster. The system prepares for the lane change.
- When a suitable gap is detected, the speed is adapted so that the vehicle remains level with the opening.
- A Check Control message indicates a lane change suggestion.
- When the traffic situation permits a lane change, the driver can steer the vehicle into the next lane.

For vehicles equipped with Lane Change Assistant: The Lane Change Assistant can be started, e.g., by operating the turn signal after the Check Control message appears.

For vehicles equipped with Active Lane Change: Once the Check Control message appears, a lane change can be started by checking the adjacent lane.

- If necessary, the system automatically starts additional lane changes.

### Display in the instrument cluster

| Icon                                                                               | Function                                                                                                                                                      |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Indicates a necessary lane change. The icon varies depending on the traffic situation.                                                                        |
|  | A green checkmark on the icon indicates that the function is active.<br>A red cross on the icon indicates that the system cannot assist with the lane change. |

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

Additional information:  
Assisted View, refer to page 155.

### System limits

The Lane Change Assistant with Active Guidance is subject to the system limits of the following systems:

- Cruise Control, refer to page 231.
- Distance Control, refer to page 233.
- Assisted Driving Mode, refer to page 239.
- Driver Attention Camera, refer to page 215.

## Assisted Driving Mode Plus

### Principle

Assisted Driving Mode Plus provides assistance with guiding the vehicle in traffic jams on select highways.

The system increases driving comfort in suitable driving situations.

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

### Safety information


**WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

**⚠ WARNING**

This system is only intended for use on roads with structural separation from oncoming traffic, e.g., highways. Because of the system limits, the system can also remain active on roads without structural separations and may not react as expected. There is a risk of accident, injury, and property damage. Deactivate the system if it is enabled on roads without structural separations.

Federal, state or local laws differ and the use of this function may be prohibited or limited. Before use, check federal, state and local laws. The Assisted Driving Mode alerts also apply. Additional information:

Assisted Driving Mode, refer to page [239](#).

## Overview

### Sensors

The system is controlled by the following sensors:

- ▶ Camera behind the windshield.
- ▶ Front radar sensor.
- ▶ Side radar sensors, front.
- ▶ Side radar sensors, rear.
- ▶ The sensors in the steering wheel.
- ▶ Driver Attention Camera.

Additional information:

Sensors of the vehicle, refer to page [39](#).

### Functional requirements

The following functional requirements apply to Assisted Driving Mode Plus:

- ▶ Assisted Driving Mode Plus must be available in the country in which the vehicle is driven.
- ▶ The functional requirements for Assisted Driving Mode have been met.

Assisted Driving Mode is active and the LED displays on the steering wheel are switched on.

Assisted Driving Mode, refer to page [239](#).

- ▶ Driving on a highway-like road without pedestrians or cyclists and with physical barriers to oncoming traffic, e.g., guard rails.
- ▶ Lane boundaries are detected.
- ▶ Sufficient lane width.
- ▶ Sufficiently wide curve radius.
- ▶ The navigation system must clearly identify the road and vehicle position.
- ▶ This function must be available on the road on which the vehicle is driving.
- ▶ Antennas located in the roof must not be covered, e.g., by roof loads or snow.
- ▶ The Driver Attention Camera in the instrument cluster detects that the driver is paying attention to the surrounding traffic.
- ▶ A vehicle has been detected ahead of you.
- ▶ Speed below approx. 40 mph/60 km/h.

### Switching Assisted Driving Mode Plus on/off

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Assisted Driving"
7. "Assisted Driving Plus"

Assisted Driving Mode Plus is automatically offered when Assisted Driving Mode is active and all functional requirements for Assisted Driving Mode Plus have been met.

To activate this function, remove your hands from the steering wheel. Remain ready to steer and brake at all times.

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

Two green LED lights are illuminated on the steering wheel.

The system begins to assist the driver with vehicle control.

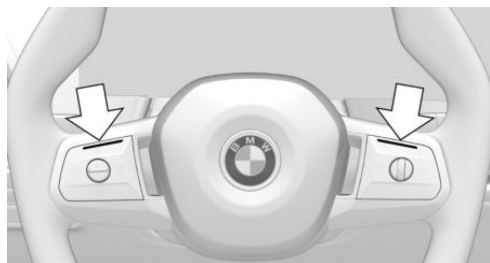
When the system is switched on, the following functions are enabled:

- ▷ Forward Collision Mitigation.
- ▷ Side Collision Protection.

## Displays in the instrument cluster

| Icon                                                                             | Description                                   |
|----------------------------------------------------------------------------------|-----------------------------------------------|
|  | Indicator light green: System is active.      |
|  | Indicator light is white: System can be used. |

## Displays on the steering wheel



The two LEDs above the keypads illuminate depending on the situation.

- ▷ Green: The system is active.
- ▷ Yellow: System will be interrupted.  
Grab the steering wheel with your hands.
- ▷ Red: System will be deactivated.  
Grab the steering wheel immediately with your hands.

Additional information:

Assisted Driving Mode, refer to page [239](#).

## Displays in the Head-up display

Depending on the equipment, the system information can also be displayed in the Head-up display.

## System limits

Assisted Driving Mode Plus is subject to the system limits of the following systems:

- ▷ Assisted Driving Mode, refer to page [239](#).
- ▷ Driver Attention Camera, refer to page [215](#).
- ▷ Vehicle sensors, refer to page [39](#).

## Speed Limit Assistant

### Principle

Speed Limit Assistant supports driving at the speed limit. A suggested speed can be applied.

### General information

When the systems in the vehicle, e.g., Speed Limit Info, detect a change of the speed limit, this new speed value can be applied for the following systems:

- ▷ Cruise Control.
- ▷ Distance Control.
- ▷ Assisted Driving Mode.
- ▷ Assisted Driving Mode Plus.

The speed value is suggested as the new desired speed to be applied. To apply the speed value, the corresponding system must be activated.

Depending on the equipment, destination system and national-market version, the value can be applied automatically.



Safety information

 **WARNING**

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

 **WARNING**

The set speed can be incorrectly adjusted or called up by mistake. There is a risk of accident, injury, and property damage. Adjust the set speed to the traffic conditions. Watch surrounding traffic closely and actively intervene where appropriate.

Overview

Buttons on the steering wheel

| Button                                                                             | Function                         |
|------------------------------------------------------------------------------------|----------------------------------|
|  | Accept suggested speed manually. |
|  | Set speed, refer to page 229.    |

Turning Speed Limit Assistant on/off

-  Apps menu
- "Vehicle"
- "Driving settings"
- "Driver Assistance"

- "Driving"
- "Speed Limit Assistant"
- "Speed limits"
- Select the desired setting:
  - "Adjust automatically": Depending on the equipment, detected speed limits are applied automatically.
  - "Adjust manually": Detected speed limits can be applied manually.
  - "Show current limit": Current speed limits are displayed without being applied in the instrument cluster.
  - "Off": Depending on the national-market version, Speed Limit Info and Speed Limit Assistant will be turned off.If necessary, other anticipatory comfort functions will be turned off.

Additional information:  
Speed Limit Info, refer to page 227.

Displays in the instrument cluster

A message is displayed in the instrument cluster when the system and a speed control system are activated.

| Icon                                                                                | Function                                                                                                                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Detected change of a speed limit with immediate effect.                                                                                                           |
|  | Depending on the national-market version, it is possible to switch between the units of measurement.                                                              |
|  | Indicator light illuminates green: The detected speed limit can be applied with the SET button.<br><br>After it has been applied, a green checkmark is displayed. |

Automatic adoption

"Adjust automatically": Distance Control automatically adopts any detected speed limits



when driving on roads with barriers separating traffic in opposing directions.

**SET**

After automatic adoption, the SET button can be pressed to switch back to the last value for the set speed. The SET button can only be used to switch back to a set speed for a limited time after automatic adoption and in suitable driving situations.

## Manual adoption

A detected speed limit can be applied manually to the active speed control system.

**SET**

When the SET icon is displayed, press the button.

## Speed adjustment

### Principle

It can be adjusted whether the speed limit is applied exactly or with a tolerance.

### General information

A speed adaptation for all speed limits and an additional speed adaptation for speed limits up to 40 mph /60 km/h can be set up.

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

### Setting the speed adjustment

1. Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Speed Limit Assistant"
7. Select the desired setting:

- ▶ "Adjust speed limits": Set the tolerance for speed adjustments, which applies to all speed limits.
- ▶ "2nd adjustment up to": Activate or deactivate additional speed adaptation.
- ▶ "Adjust speed limits": With activated additional speed adjustment, set the tolerance for speed limits up to 40 mph /60 km/h.

## System limits

Speed Limit Assistant is based on the Speed Limit Info system.

Consider the system limits of Speed Limit Info.

Cruise Control without Distance Control: For system related reasons, the speed limits cannot be applied automatically.

Additional information:

- ▶ System limits of Speed Limit Info, refer to page 228.
- ▶ System limits of the sensors, refer to page 39.

## Adapting the speed to the route

### Principle

The system can be configured so that with active Distance Control, the vehicle adapts the speed automatically to the route.

For instance, the speed will be reduced in the following situations as necessary:

- ▶ Before making turns.
- ▶ Before a roundabout.
- ▶ Before a curve.
- ▶ In front of an exit ramp on highways or highway-like roads.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

The Cruise Control, Distance Control, Assisted Driving Mode, and Speed Limit Assistant alerts also apply.

Additional information:

- ▶ Cruise Control, refer to page [231](#).
- ▶ Distance Control, refer to page [233](#).
- ▶ Assisted Driving Mode, refer to page [239](#).
- ▶ Speed Limit Assistant, refer to page [248](#).

## Functional requirements

- ▶ Cruise Control and Distance Control are activated.
- ▶ Driving on a highway or highway-like road.
- ▶ With navigation system: Guidance is activated.

The use of navigation software via Apple CarPlay or Android Auto may lead to functional limitations, for instance deviations with navigation instructions.

- ▶ The function must be available in the country in which the vehicle is driven.

## Adapting speed automatically to route

1.  Apps menu
2. "Vehicle"
3. "Driving settings"

4. "Driver Assistance"
5. "Driving"
6. "Route and intersection assistant"
7. "Automatically adjust speed to route"

## Adjusting the cornering speed

The cornering speed can be adjusted depending on national-market version.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Driving"
6. "Route and intersection assistant"
7. "Cornering speed"
8. Select the desired setting.

## Displays in the instrument cluster

Depending on the equipment and national-market version, information for the system is displayed in the Assisted View in the central display area of the instrument cluster.

Additional information:

Assisted View, refer to page [155](#).

## System limits

Depending on the national-market version or country in which the vehicle is currently being driven, the function may not be available.

The system does not react or reacts to a limited extent to the route ahead in the following situations:

- ▶ If the vehicle location cannot be clearly determined by the navigation system.
- ▶ On wintry roads.

Additionally, the limits for Cruise Control, Distance Control, Assisted Driving, and Speed Limit Assistant systems apply.

Additional information:



- ▷ Cruise Control, refer to page [231](#).
- ▷ Distance Control, refer to page [233](#).
- ▷ Assisted Driving Mode, refer to page [239](#).
- ▷ Speed Limit Assistant, refer to page [248](#).

# Parking

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Parking assistance systems

### General information

The parking assistance systems include different individual systems. The individual systems help the driver when parking, maneuvering, or reversing by providing various assistance functions, sensors, and camera views.

Additional information:

- ▶ Rear View Camera, refer to page 258.
- ▶ Semi-automatic camera perspective, refer to page 259.
- ▶ Automatic camera perspective, refer to page 259.
- ▶ Side view, refer to page 260.
- ▶ 3D view, refer to page 260.
- ▶ Car wash view, refer to page 261.
- ▶ Panorama View, refer to page 261.
- ▶ Automatic activation of panorama view, refer to page 262.
- ▶ Door opening angle, refer to page 263.
- ▶ Remote 3D View, refer to page 263.
- ▶ Park Distance Control, refer to page 264.
- ▶ Active Park Distance Control, refer to page 267.
- ▶ Drive-Off Monitoring, refer to page 268.

- ▶ Automatic Park Assistant, refer to page 269.
- ▶ Maneuver Assistant, refer to page 274.
- ▶ Remote Control Parking, refer to page 278.
- ▶ Back Up Assistant, refer to page 279.

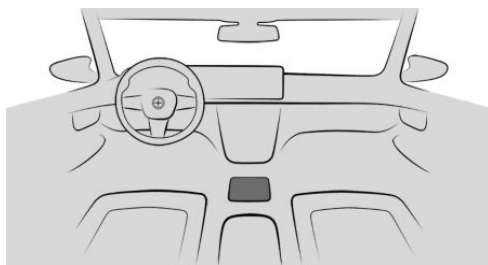
## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

## Overview

### Button in the vehicle



Park Assist key

## Sensors

The parking assistance systems are controlled by the following sensors:

- ▷ Ultrasonic sensors in the front/rear bumpers.
- ▷ Ultrasonic sensors, side.
- ▷ Front camera.
- ▷ Top view cameras.
- ▷ Rear View Camera.

Additional information:

Sensors of the vehicle, refer to page 39.

## Operating concept

The camera-based individual systems are operated with the function bars on the control display. The camera views can be viewed by selecting the appropriate icon.

In the Parking menu, some parking assistance systems can be configured individually.

Some parking assistance systems can be started by voice control as needed, e.g., driving in/out of a parking space with the Automatic Park Assistant.

Additional information:

BMW Intelligent Personal Assistant, refer to page 58.

## Calling up Park menu

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. Select the desired settings.

## Display

### Principle

With the Park Distance Control display and various camera views, the parking assistance systems help you park, maneuver, and reverse your vehicle.

## General information

Depending on vehicle equipment, one or more cameras record the area around the vehicle from different selectable perspectives.

Depending on the view, the vehicle's surroundings or a part of it is depicted.

Depending on the national-market version, either the automatic or the semi-automatic camera perspective is displayed.

## Turning display on/off

### General information

The parking assistance systems view switches off automatically when driving forwards or if a certain distance or speed is exceeded.

### With reverse gear

When drive-ready state is switched on, the display is automatically switched on if selector lever position R is engaged.

### With the Park Assist key



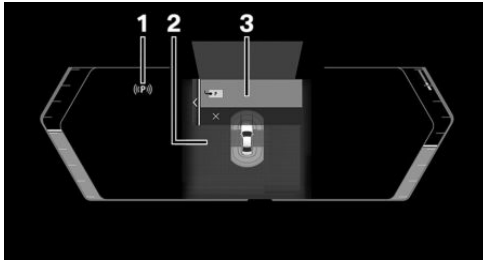
Press the button.

### Via iDrive

1.  Apps menu
2. "Vehicle"
3. "Parking"

## Display in the instrument cluster

The instrument cluster shows displays of some parking assistance systems such as Park Distance Control or Automatic Park Assistant.



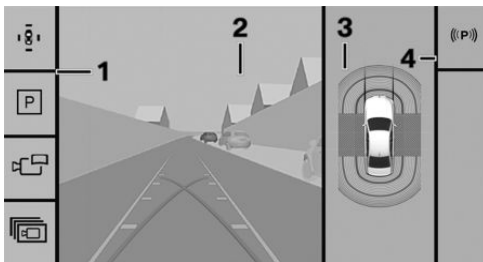
- 1 Status of parking assistance systems
- 2 Assisted View
- 3 Selection menu

## Display on the control display

### General information

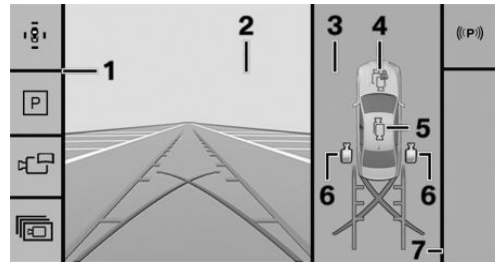
Depending on vehicle equipment and on the activated parking assistance system, the control display will vary.

### Assistance view



- 1 Toolbar, left
- 2 Camera image
- 3 Vehicle top view
- 4 Toolbar, right

### Parking view



- 1 Toolbar, left
- 2 Camera image
- 3 Selection window
- 4 Automatic camera perspective
- 5 Semi-automatic camera perspective
- 6 Side view
- 7 Toolbar, right

### Toolbar, left

Different views and settings can be selected via the left toolbar depending on the equipment:

- ▷  "Parking View"  
Depending on vehicle equipment, camera views or the Park Distance Control view are displayed.
- ▷  "Assist View"  
A stylized top view of the vehicle is displayed.
- ▷  "Panorama View"  
The cross traffic view is displayed.
- ▷  "More"
  - ▷  "3D View"  
A three-dimensional view of the vehicle is displayed.
  - ▷  "Car wash View"  
To make it easier to drive into a car wash, your own lane is shown.
  - ▷  "Camera cleaning"

When drive-ready state is on, the front camera and Rear View Camera cleaning can be activated as necessary.

➤  "Settings"

Settings can be entered in the Park menu.

Additional information:

Turning on camera cleaning manually, refer to page [43](#).

## Toolbar, right

The Parking Assistant functions are displayed in the right toolbar:

- Status of the parking assistance systems.
- Available parking methods of the Automatic Park Assistant.
- Functions of the Back Up Assistant.
- Functions of the Maneuver Assistant.
- Additional information in case of malfunctions.

## Status of parking assistance systems

The status of parking assistance systems is indicated by icons on the toolbar on the right of the control display, in the status area on the instrument cluster, and on the Head-up display, depending on vehicle equipment. In addition to this icon, text also appears on the control display.

The following parking assistance systems are displayed:

- Automatic Park Assistant.
- Maneuver Assistant.
- Back Up Assistant.

| Icon                                                                              | Meaning                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | No search for parking assistance system offers.<br>No other parking assistance systems available.<br>Parking assistance systems have failed.                                                                                                                            |
|  | Search for parking assistance system offers is active.                                                                                                                                                                                                                  |
|  | White: An available maneuver is selected but is not being performed. Functional requirements have not been met or the functions transfer has been completed.<br>Green: Parking assistance system is active. Functions are controlled depending on the system activated. |
|  | Maneuver Assistant records the maneuver to be stored.                                                                                                                                                                                                                   |

## Additional displays

### General information

Additional displays can be shown in the camera image of the display of the parking assistance systems, e.g., parking aid lines, to make parking and maneuvering easier.

Several additional displays can be active at the same time.

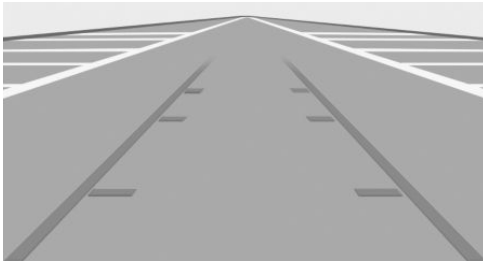
### Turning additional displays on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. Select the desired setting.



## Parking aid lines

### Pathway lines

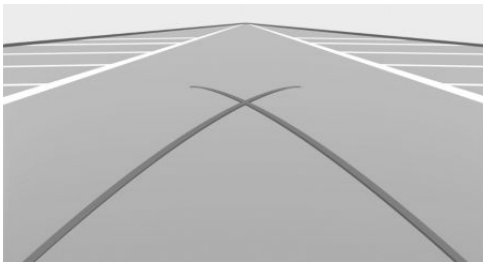


Pathway lines help you to estimate the space required when parking and maneuvering on level roads.

Lane lines are displayed in front of or behind the vehicle depending on the gear engaged.

The pathway lines are continuously adjusted to the steering movements depending on the steering-wheel angle.

### Turning circle lines



Turning circle lines can only be superimposed on the camera image together with pathway lines.

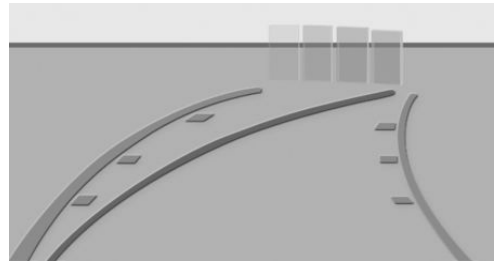
The lines show the course of the smallest possible turning circle on a level road.

Only one turning circle line is displayed after the steering wheel is turned past a certain angle.

### Using parking aid lines

1. Position the vehicle so that the red turning circle line leads to within the limits of the parking space.
2. Turn the steering wheel to the point where the green pathway line covers the corresponding turning circle line.

### Obstacle marking



Obstacles are detected by the sensors.

The obstacles detected by the Park Distance Control are shown by marks in the camera image.

Colored gradients for the obstacle markings in green, yellow and red indicate the distances.

### Functional limitations

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

- ▷ With a door open.
- ▷ With open cargo area.
- ▷ With exterior mirrors folded in.

Areas with gray hatching with an icon in the camera image identify areas that are currently not shown such as an open door.



## System limits

### Safety information

#### **WARNING**

Because of system limitations, this system may either not respond, or respond too late, incorrectly, or without cause. There is a risk of accident, injury, and property damage. Actively intervene as warranted. Refer to the information in this Owner's Manual regarding the scope of the system's operation and limitations.

### System limits of the sensors

Additional information:

Sensors of the vehicle, refer to page 39.

### Field of view

Because of the camera angle, the areas under the vehicle cannot be viewed by the cameras.

### Detection of objects

Very low obstacles as well as high, protruding objects such as ledges may not be detected by the system.

Objects shown on the control display may be closer than they appear. Do not estimate the distance to the objects on the control display.

The camera's detection range can be limited by protruding cargo or a rear carrier.

### Malfunction

A camera failure is displayed on the control display.

The malfunctioning camera's detection range is shown by the shaded area on the control display.

## Rear View Camera

### Principle

The Rear View Camera helps when reverse parking and maneuvering. The area behind the vehicle is shown on the control display.

Additional views can be shown on the display, e.g., parking aid lines and obstacle markings.

### General information

Follow the information in the Parking assistance systems chapter.

### Functional requirements

- ▷ The cargo area is fully closed.
- ▷ The camera area is clean and clear.

### Turning the Rear View Camera on/off

#### Turning the camera view on automatically

When drive-ready state is switched on, the Rear View Camera is automatically switched on if selector lever position R is engaged.

#### Turning the camera view off automatically

The Rear View Camera turns off automatically when driving forward or when a certain distance or speed is exceeded.

#### Turning the camera view on/off manually



1. Press the button.
2. Engage selector lever position R.
  -  Depending on vehicle equipment: The icon in the selection window is selected automatically.

To exit the Rear View Camera view, select another camera view in the selection window or press the button again.

## Deactivated Rear View Camera

When the Rear View Camera is deactivated, for instance when the cargo area is open, the camera image is displayed with gray shading.

## Semi-automatic camera perspective

### Principle

Depending on the parking direction and engaged selector lever position, a fixed camera perspective is displayed with the areas in front of or behind the vehicle.

### General information

Follow the information in the Parking assistance systems chapter.

### Turning the semi-automatic camera perspective on/off

1.  Press the button.
2.  Select the icon in the selection window.  
To exit the fixed camera view, select another camera view in the selection window.

## Automatic camera perspective

### Principle

The automatic camera perspective shows a steering-dependent view in the respective driving direction.

This perspective adapts to the respective driving situation.

## General information

As soon as obstacles are detected, the view changes to a fixed display of the area in front of or behind the bumper, or switches to side Park Distance Control as necessary.

When reverse gear is engaged, the automatic camera perspective is, if necessary, exited and the system uses a semi-automatic camera perspective to the rear. If necessary, select the automatic camera perspective when reverse gear is engaged. The automatic camera perspective will then be maintained for the current parking operation.

Follow the information in the Parking assistance systems chapter.

### Turning the automatic camera perspective on/off

### Turning the camera view on/off automatically

When the parking assistance systems' display is turned on, automatic camera perspective is selected automatically.

 The icon in the selection window is selected automatically.

To exit the steering-dependent camera view, select another camera view in the selection window.

### Turning the camera view on/off manually

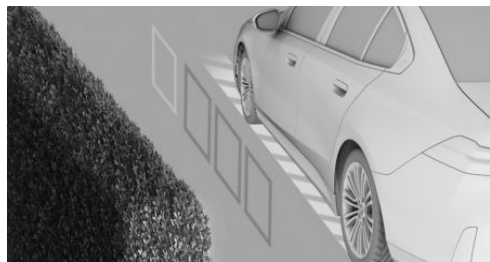
1.  Press the button.
2.  The icon in the selection window is selected automatically.  
To exit the steering-dependent camera view, select another camera view in the selection window or press the button again.

## Side protection

### Principle

The side Park Distance Control is automatically displayed when the automatic camera perspective is turned on. The function shows obstacles located next to the vehicle.

### Display



To protect the sides of the vehicle, obstacle markings are displayed on the sides of the vehicle.

- ▷ No markings: No obstacles detected.
- ▷ Color marks: Warning against detected obstacles.

### System limits

The system only displays stationary obstacles that were previously detected by sensors while passing them.

The system does not detect whether an obstacle moves later on. For this reason, at standstill, the marks are not shown anymore in the display after a certain time. The area next to the vehicle must be newly captured.

## Side view

### Principle

Side view shows the vehicle's side surroundings, making it easier to position the vehicle at the curb or with other obstacles on the side.

The side view looks from rear to front and, in case of danger, focuses automatically on possible obstacles.

### General information

Follow the information in the Parking assistance systems chapter.

### Turning the side view on/off

The selection window lets you choose the side view for the left or right side of the vehicle.

1.  Press the button.
2.  Select the icon for the desired vehicle side in the selection window.

To exit the side view, select another camera view in the selection window.

## 3D view

### Principle

With 3D view, a circle is displayed around the vehicle top view in the selection window.

Specified perspectives can be selected on the circle.

### General information

The current perspective is marked with a camera icon.

Follow the information in the Parking assistance systems chapter.

### Turning the 3D view on/off

1.  Press the button.
2.  "More"
3.  "3D View"

To exit the 3D view, select another camera view on the left toolbar.

## Car wash view

### Principle

Car wash view helps when driving into a car wash by showing the vehicle's lane.

### General information

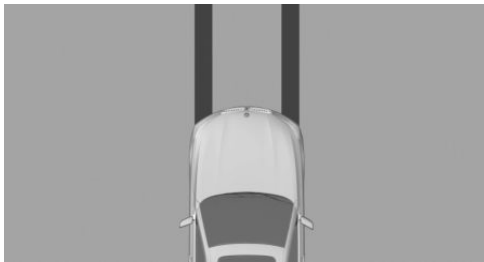
Follow the information in the Parking assistance systems chapter.

### Turning the tunnel car wash view on/off

1.  Press the button.
2.  "More"
3.  "Car wash View"

To exit the car wash view, select a different camera view in the left toolbar.

### Display



Your own lane is displayed for easier driving into a car wash.

This view can be used to position the vehicle correctly within the washing system guide rails.

In a tunnel car wash, it is necessary that the vehicle be able to coast freely.

Additional information:

Rolling or pushing the vehicle, refer to page [126](#).

## Panorama View

### Principle

The panoramic view gives you an earlier view of crossing traffic at blind driveway exits and intersections.

### General information

Road users concealed by obstacles to the left and right of the vehicle can only be detected relatively late from the driver's seat. To provide greater visibility, the front camera and, depending on vehicle equipment, Rear View Camera cover the side of the vehicle.

Depending on vehicle equipment, saved activation points can turn on panorama view automatically.

The camera image shows different levels of distortion in some areas and is thus not suitable for distance estimations.

Depending on vehicle equipment, the function can be used when driving forward or in reverse.

Follow the information in the Parking assistance systems chapter.

### Sensors

The system is controlled by the following cameras:

- Rear View Camera.
- Depending on the equipment: Front camera.

### Turning the panoramic view on/off

1.  Press the button.
2.  "Panorama View"

To exit panorama view, select another camera view on the left toolbar.



## Display



Yellow lines on the screen display identify the bumpers of your own vehicle.

When reverse gear is engaged, the Rear View Camera view is displayed. Depending on vehicle equipment, the front camera view is displayed when forward gear is engaged.

## Automatic activation of panorama view

### Principle

Positions at which panorama view should switch on automatically can be saved as activation points.

### General information

Up to ten activation points can be stored.

The activation points can be used when driving forward and, depending on national-market version, when reversing.

Follow instructions in the Parking assistance systems chapter.

### Functional requirements

- ▶ A GPS signal must be received.
- ▶ Depending on national-market version: A BMW ID or driver profile must be activated.

- ▶ The Rear View Camera and front camera must be installed.
- ▶ The direction of travel, selector lever position, and vehicle angle must correspond to a stored activation point.

## Storing activation points

1. Drive the vehicle to the location where the system should turn on, then stop.



2. Press the button.

3. "Panorama View"

4. "Activation point"

The current position is displayed.

5. "Save activation point"

Activation points are saved with the following information, for example:

- ▶ With the city/town.
- ▶ With the city/town and the street.
- ▶ With the GPS coordinates.

You can rename the location and street information created automatically.

## Using activation points

The use of activation points can be switched on and off.

1. ■■ Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "GPS-based"

## Editing activation points

You can rename or delete specific activation points or all of them.

1.  Press the button.
2.  "Panorama View"
3. "Manage points"

A list of all saved activation points is displayed.

4. Select the desired setting.

## Door opening angle

### Principle

Depending on vehicle equipment, the door opening angle display is shown automatically when stationary.

This display helps estimate how far the doors can be opened when parking.

If obstacle marking is activated, the parking view indicates fixed obstacles that obstruct the opening angles of the doors.

### General information

Follow the information in the Parking assistance systems chapter.

### Display



The maximum opening angle of the doors is displayed in selector lever position P.

## System limits

The system does not provide a warning of approaching road users.

The vehicle's surroundings are distorted in the display for technical reasons.

Even if the door opening angle indicator on the control display does not overlap with any other objects, it is necessary to park carefully next to other objects.

Because of the perspective, higher, protruding objects may be closer than they appear on the control display.

## Remote 3D View

### Principle

The My BMW App and camera views in parking view such as automatic camera perspective enable you to display the vehicle's surroundings on a mobile device.

The function displays a snapshot of the situation.

### General information

For reasons of data protection, the function can only be used three times within two hours.

Follow the information in the Parking assistance systems chapter.

### Sensors

The system is controlled by the following cameras:

- ▷ Front camera.
- ▷ Top view cameras.
- ▷ Rear View Camera.

### Functional requirements

- ▷ Data transfer must be activated.



Data protection, refer to page 68.

- ▶ The My BMW App must be installed on the mobile end device.
- ▶ ConnectedDrive countries: A BMW ID with an existing ConnectedDrive account must be activated.

BMW ID/driver profiles, refer to page 69.

## Activating/deactivating Remote 3D View

The function can be activated or deactivated individually or together with other functions.

1. Apps menu
2. "Vehicle"
3. "System settings"
4. "Data privacy"
5. Select the desired setting.

After activation, Remote 3D View can be accessed using the My BMW App.

## System limits

The system may not be fully operational or may not be available in the following situations:

- ▶ With a door or the cargo area open. Dark fields in the display indicate areas that are not recorded by the system.
- ▶ With manually folded-in exterior mirrors.
- ▶ When other camera functions are being performed in the vehicle.
- ▶ The vehicle moves faster than walking speed.
- ▶ In case of missing or weak Internet connection.

## Park Distance Control

### Principle

Park Distance Control assists with parking. Acoustic and visual warnings signal obstacles in front of or behind the vehicle.

Obstacles that are detected by the side ultrasonic sensors can also be reported.

### General information

The range of the system, depending on obstacles and environmental conditions, is approx. 6 ft/2 m.

An acoustic warning sounds in case of an impending collision at a distance to the object of approx. 27 in/70 cm.

For objects behind the vehicle, the acoustic warning is issued as early as a distance to the object of approx. 5 ft/1.50 m.

Follow the information in the Parking assistance systems chapter.

### Safety information

#### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

#### WARNING

Due to high speeds when the Park Distance Control is activated, the warning can be delayed due to physical circumstances. There is a risk of injury and risk of property damage.



Avoid approaching an object too fast. Avoid driving off quickly while Park Distance Control is not yet active.

## Sensors

The system is controlled by the following sensors:

- ▷ Ultrasonic sensors in the front/rear bumpers.
- ▷ Ultrasonic sensors, side.

## Turning Park Distance Control on/off

### Turning on the system automatically

The system switches on automatically in the following situations:

- ▷ When drive-ready state is switched on when selector lever position R is engaged.
- ▷ While approaching detected obstacles if the speed is lower than approx. 2.5 mph / 4 km/h. The activation distance depends on the situation in question.

The automatic activation of detected obstacles can be activated or deactivated.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "Automatic PDC activation"

### Turning off the system automatically

When driving forward, the system turns off automatically as needed when a certain distance or speed is exceeded.

### Turning the system on/off manually



Press the button.

- ▷ On: The LED illuminates.
- ▷ Off: The LED goes out.

If the system is manually switched on when the reverse gear is engaged, the Rear View Camera image is displayed.

Depending on the national-market version, the system cannot be turned off manually when the reverse gear is engaged.

## Acoustic warning

### General information

An intermittent tone indicates when the vehicle is approaching an object. E.g., when an object is detected at the rear left of the vehicle, a sound is heard from the rear left speaker.

The shorter the distance to the object, the shorter the intervals of the intermittent tones.

When the distance to a detected object is less than approx. 8 in/20 cm, a continuous tone is sounded.

When there are objects in front of and behind the vehicle at the same time, at a distance smaller than approx. 8 in/20 cm, an alternating continuous tone will sound between the front and rear speakers.

The intermittent tones and the continuous tone are turned off when selector lever position P is engaged.

Depending on national-market version, the intermittent tones are switched off after a short time when the vehicle is stationary.

If an object approaches when the vehicle is stationary, the acoustic signal is reactivated.

### Adjusting the volume

The volume of the acoustic warning can be adjusted.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"

4. "Driver Assistance"
5. "Parking"
6. "PDC signal volume"
7. Set the desired value.

### Depending on national-market version: Turn off acoustic warning

Depending on national-market version, the acoustic warning can be turned off while performing a parking maneuver.

Press  the icon in the status field at the top of the control display.

When the Park Distance Control is switched on again, the acoustic warning is automatically switched on again.

## Visual warning

### General information

The approach to an object is displayed on the control display and in the instrument cluster as soon as the system is activated.

Objects that are farther away are already displayed before a signal sounds.

Depending on the view, pathway lines, turning circle lines and obstacle markings are shown for a better estimation of the space required.

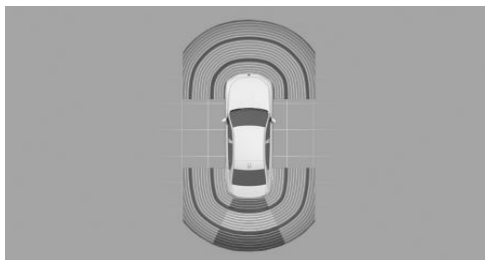
Depending on vehicle equipment, the sensor detection range is shown by the shaded, ring-shaped area. Green, yellow, and red markings indicate when obstacles are detected within the detection range.

If vehicle is equipped with Cross Traffic Warning: A warning is also shown on the display for vehicles approaching from the side at the rear and front.

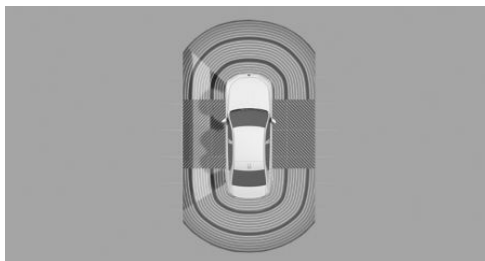
To protect the sides of the vehicle, obstacle markings are displayed on the sides of the vehicle.

## Display

Depending on vehicle equipment, warnings may be displayed in front of, next to, and behind the vehicle.



Example display of warnings behind the vehicle.



Example display of warnings next to the vehicle.

- ▷ Gray shaded area: Sensor detection range. No obstacles were detected within detection range.
- ▷ Colored marks in shaded area: Obstacles have been detected within the detection range.
- ▷ Shaded area interrupted: The area next to the vehicle has not yet been detected.

## System limits

### General information

The function for protecting the vehicle sides only shows stationary obstacles that were previously detected by the sensors when passing by.

The system does not detect whether an obstacle moves later on. When the vehicle is stationary, the gray shaded areas on the sides are hidden after a certain time. The area on the side of the vehicle must be newly captured.

Also follow the information on system limits in the Parking assistance systems chapter.

## Unwarranted warnings

Reaching the system limits can cause unwarranted warnings.

To prevent unwarranted warnings, for instance in tunnel car washes, turn off automatic Park Distance Control activation on obstacle detection.

## Malfunction



An icon is displayed on the control display.

Depending on vehicle equipment: The sensor detection range may not be shown on the control display.

A Check Control message is displayed.

Park Distance Control may not be operational. Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Active Park Distance Control

### Principle

The Park Distance Control brake function initiates emergency braking if there is an acute risk of collision.

### General information

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

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

Pressing the accelerator pedal interrupts the brake intervention. Emergency braking is not performed.

After emergency braking to a stop, further creeping toward an obstacle is possible. Proceed with caution. To move forward, lightly press the accelerator pedal and release as needed.

If the accelerator pedal is depressed longer, the vehicle drives off. Manual braking is possible at any time.

Follow the information in the Parking assistance systems chapter.

## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

## Sensors

The system is controlled by the following sensors:

- ▷ Ultrasonic sensors in the rear bumpers.
- ▷ Ultrasonic sensors, side.
- ▷ Rear View Camera.

## Deactivating Active Park Distance Control temporarily

After emergency braking, the function can be temporarily deactivated on the control display. A corresponding message is displayed.

1. "Configure"
2. "Deactivate temporarily"

During continued driving in this surrounding situation, no further emergency braking will occur.

The function is automatically reactivated when Park Distance Control is switched on again.

## Settings

It is possible to set which areas on the vehicle will be protected by the system.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "Active PDC emergency braking"
7. Select the desired setting.

## Display



As soon as the system engages, an icon is displayed with a corresponding message.

## System limits

### General information

Follow the system limits in the Parking assistance systems chapter.

## Drive-Off Monitoring

### Principle

Drive-Off Monitoring reduces the drive power if there is a risk of collision when driving off, e.g., if the accelerator pedal and brake pedal are mixed up.

### General information

When obstacles are detected in close range in front of the vehicle, the acceleration will be reduced. If necessary, this permits timely manual braking.

When obstacles are detected behind the vehicle, the system will brake.

Follow the information in the Parking assistance systems chapter.

## Safety information



### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### Sensors

The system is controlled by the following sensors:

- ▶ Ultrasonic sensors in the front/rear bumpers.
- ▶ Ultrasonic sensors, side.

## Functional requirements

- ▷ Selector lever position D or R is engaged when the vehicle is stationary.
- ▷ Obstacles in the immediate vicinity are detected in front of or behind the vehicle.
- ▷ The accelerator pedal is heavily applied, nearly to the end point.
- ▷ The accelerator pedal is immediately applied after engaging the selector lever position and obstacle detection.

## Turning Drive-Off Monitoring on/off

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "Drive-Off Monitoring"
7. "Drive-Off Monitoring"

A Check Control message is displayed where applicable.

Depending on the national-market version, the system is automatically turned on again at the next drive.

## Canceling reduced drive power

The reduction of the drive power is canceled in the following situations:

- ▷ The accelerator pedal is released.
- ▷ After the accelerator pedal has been depressed completely twice.
- ▷ A specific distance has been traveled.

If the reduction in drive power is canceled by covering a certain distance, the drive power is released gradually.

## Display



As soon as the system engages, an icon is displayed with a corresponding message.

## System limits

### General information

Follow the system limits in the Parking assistance systems chapter.

## Automatic Park Assistant

### Principle

Automatic Park Assistant provides support when parallel parking and parking transverse to the road.

In addition, the system makes it easier to park out of parallel and perpendicular parking spaces.

The ultrasonic sensors measure both sides of the vehicle when driving slowly forward. Suitable parking spaces are calculated based on the objects detected, e.g., parking vehicles. The system status is displayed.

The system calculates the best possible parking line for driving in or out of parking spaces, and takes control of the vehicle while parking.

The operating principle and operation of the system is divided into the following steps:

- ▷ Parking space search.
- ▷ Turning on.
- ▷ Parking.
- ▷ Driving out of parking spaces.

The parking manoeuvre while parking is performed automatically.

When driving out of parallel parking spaces, the vehicle maneuvers automatically until it reaches a position where it can be driven out of the parking space without further steering movements.

When driving out of perpendicular parking spaces, the vehicle is maneuvered out of the parking space to enable continued driving in the desired direction.

Parking Assistant Plus and Automatic Park Assistant enhance driving comfort and the functionality of the Automatic Park Assistant. In addition to the parking methods of the Automatic Park Assistant, Parking Assistant Plus makes it possible to park in parking spaces that are marked with lines.

Parking Assistant Professional can also be used to perform a parking maneuver with Remote Control Parking on a smartphone.

## Vehicle features and options

This system may not be available in the owned vehicle, e.g. due to the selected optional equipment, the national-market version or the option for later enabling and software updates. This also applies to individual functions of the system.

For information on whether a function is currently available in the vehicle or when the function can be installed in the vehicle, contact an authorized service center or another qualified service center or repair shop.

Additional information:

Vehicle equipment, refer to page 8.

## General information

Follow the information in the Parking assistance systems chapter.

## Safety information

### WARNING

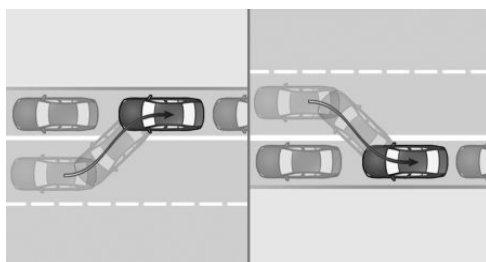
The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

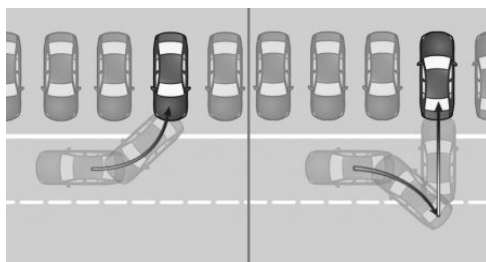
The system can steer over or onto curbs, which can result in an accident. There is a risk of injury and risk of property damage. Watch surrounding traffic closely and actively intervene where appropriate.

## Parking methods

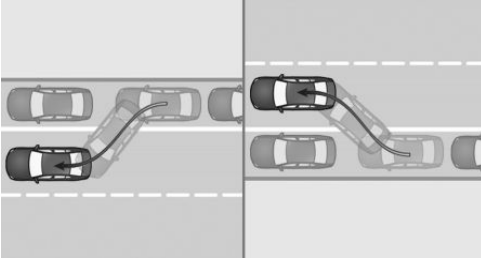
Automatic Park Assistant supports the following functions:



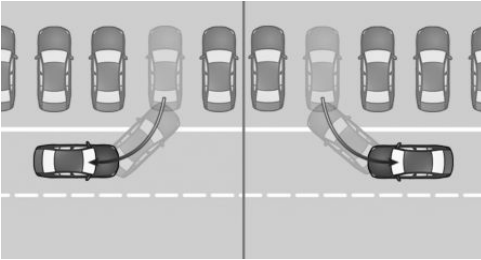
Parallel parking: Reverse parking parallel to the road.



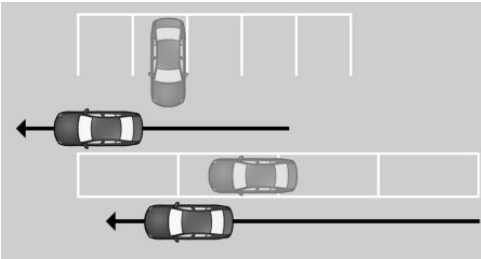
Perpendicular parking: Reverse or forward parking perpendicular to the road.



Driving out of parallel parking spaces.



Driving out of perpendicular parking spaces.



Parking Assistant Plus, Parking Assistant Professional: Parking in parking spaces with parking lines.

## Sensors

The Automatic Park Assistant is controlled by the following sensors:

- ▷ Ultrasonic sensors in the front/rear bumpers.
- ▷ Ultrasonic sensors, side.

The enhanced functions of Parking Assistant Plus and Parking Assistant Professional are also controlled by the following cameras:

- ▷ Front camera.
- ▷ Top view cameras.
- ▷ Rear View Camera.

## Functional requirements

### Measurement of parking spaces

- ▷ Maximum speed while driving forward approx. 22 mph /35 km/h.
- ▷ Maximum distance to row of parked vehicles: 5 ft/1.5 m.

### Suitable parking space

Longitudinal parking:

- ▷ Minimum length of detected object, e.g., parking vehicle: Approx. 3.0 ft / 1.0 m.
- ▷ Minimum length of gap between two objects: Own vehicle length plus approx. 2.6 ft/0.8 m.
- ▷ Minimum depth: Approx. 5.0 ft / 1.5 m.

Perpendicular parking:

- ▷ Minimum length of detected object, e.g., parking vehicle: Approx. 3.0 ft / 1.0 m.
- ▷ Minimum width of the gap: Own vehicle width plus approx. 2.3 ft/0.7 m.
- ▷ Minimum depth: Own vehicle length.

The depth of perpendicular parking spaces must be estimated by the driver. Due to technical limitations, the system is only able to approximate the depth of perpendicular parking spaces.

Parking lines for Parking Assistant Plus and Parking Assistant Professional:

- ▷ The parking space must be clearly marked with lines.
- ▷ The one-time calibration of the camera after vehicle delivery must be complete. Drive a few kilometers in daylight to do so.

## Parking operation

- ▶ Doors and cargo area are closed.
- ▶ Driver's seat belt is fastened.

## Leaving parking spaces

- ▶ The vehicle was parked using the Automatic Park Assistant, and an object has been detected in the area around the vehicle.
- ▶ The vehicle was manually parked in reverse, and objects have been detected in the immediate vicinity of the vehicle. The distance to a detected curb is at least 6 in/15 cm.
- ▶ The parking space is at least 2.6 ft/0.8 m longer than the vehicle.

## Displays

### General information

The current status of the Automatic Park Assistant is shown on the right-hand toolbar, on the instrument cluster, and on the Head-up display, depending on vehicle equipment.

Different icons are shown on the control display for selecting the parking method.

The sequence of the displayed icons corresponds to the prioritized parking option.

The direction of the arrow changes for the icons for parking methods for driving out of a parking space.

| Icon                                                                              | Meaning                            |
|-----------------------------------------------------------------------------------|------------------------------------|
|  | Reverse lengthwise parking, right. |
|  | Reverse lengthwise parking, left.  |
|  | Reverse perpendicular parking.     |
|  | Forward perpendicular parking.     |

## Turning parking operation display on/off

When the Automatic Park Assistant is active, the parking operation is displayed in the camera image on the control display.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "Show assistance info"

## Turning the signal tone on/off

The signal tone for suitable parking spaces can be turned on and off.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "Sound when available"

## Parking using the Automatic Park Assistant

1. For the parking space search, drive past parked vehicles at a speed of up to approx. 22 mph / 35 km/h and a distance of max. 5.0 ft / 1.5 m.

 The parking space search is activated and displayed on the instrument cluster.

2. Press the  button or engage reverse gear.

The parking assistance systems view is displayed.

The status of the parking space search and possible parking spaces are displayed on the control display and in the instrument cluster.



3. On the control display: Select one of the parking maneuvers offered. You can switch to another parking maneuver as necessary. In the instrument cluster: Select suggested parking method with the thumbwheel on the steering wheel.

 Green: The system takes control of the parking operation.

4. Follow the instructions on the control display or in the instrument cluster.

The speed can be reduced with the brake. Other interventions will cancel the system.

Depending on national-market version, an intermittent or continuous tone sounds for Park Distance Control.

At the end of the parking operation, selector lever position P is set.

The end of the parking operation is indicated on the control display and in the instrument cluster.

5. Adjust the parking position yourself, if needed.

## Driving out of a parking space using the Automatic Park Assistant

1. Turn on the drive-ready state.



2.  With the vehicle at a standstill, press button or engage reverse gear.

The parking assistance systems view is displayed.

3. On the control display: Select the desired parking method.

In the instrument cluster: Select suggested parking method with the thumbwheel on the steering wheel.

4. Follow the instructions on the control display or in the instrument cluster.

 Green: The system takes control of maneuvering.

The speed can be reduced with the brake. Other interventions will cancel the system. A message will be displayed at the end of the maneuver.

5. Make sure that the traffic situation permits driving out of parking space and driving off as usual.

The Automatic Park Assistant is turned off automatically.

## Canceling Automatic Park Assistant manually

The Automatic Park Assistant can be canceled manually at any time, e.g.:

- ▷ Step lightly on the accelerator pedal twice in succession.
- ▷ Step lightly on the accelerator pedal and move the steering wheel slightly at the same time.
- ▷ Depress the brake pedal and operate the selector lever at the same time.

The Automatic Park Assistant is canceled without engaging selector lever position P. Driving can continue immediately.

## Canceling Automatic Park Assistant automatically

The system automatically cancels in situations such as the following:

- ▷ When the driver grasps the steering wheel or takes over steering.
- ▷ When operating the accelerator pedal or the selector lever.
- ▷ When setting the parking brake.
- ▷ When unfastening the driver's seat belt.
- ▷ With open cargo area.
- ▷ With open hood.
- ▷ With the doors open.
- ▷ During activation or intervention by driver assistance systems.



- ▷ When changing over to another function on the control display.
- ▷ When the view on the control display is overlaid with messages.
- ▷ On snow-covered or slippery road.
- ▷ On steep uphill or downhill grades.
- ▷ When there are obstacles that are hard to overcome such as curbs.
- ▷ When there are obstacles that suddenly appear.
- ▷ With insufficient distances, which are indicated by Park Distance Control.
- ▷ When a maximum number of parking attempts or the time taken for parking is exceeded.

When the system is automatically aborted, selector lever position P is engaged.

A Check Control message is displayed where applicable.

## Continuing the parking operation

If parking or leaving a parking space has been interrupted, the operation can be continued, if needed.

Turn the Automatic Park Assistant on again and follow the instructions on the control display or in the instrument cluster.

## System limits

### General information

Follow the system limits in the Parking assistance systems chapter.

### No parking assistance

The Automatic Park Assistant does not offer assistance in the following situations:

- ▷ In tight curves.
- ▷ For diagonal parking spaces.
- ▷ Automatic Park Assistant: For parking spaces that are only marked with lines on

the ground. The system orients itself according to objects.

- ▷ For special parking spaces, e.g., metered parking spaces with automatic locking mechanisms, or mechanical parking systems.

### Functional limitations

The system may be limited in the following situations:

- ▷ On bumpy road surfaces such as gravel roads.
- ▷ On slippery ground.
- ▷ On steep uphill or downhill grades.
- ▷ If leaves or snow have accumulated in the parking space.
- ▷ In case of changes to an already-measured parking space.
- ▷ With ditches or edges, for instance an edge of a port.
- ▷ Parking spaces that are not suitable may be detected or suitable parking spaces may not be detected at all.

### Malfunction

A Check Control message is displayed.

The Automatic Park Assistant may not be operational. Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Maneuver Assistant

### Principle

The Maneuver Assistant provides support for recurring parking and maneuvering situations.

Parking and maneuvering operations can be recorded and then carried out automatically by the system.

## Vehicle features and options

This system may not be available in the owned vehicle, e.g. due to the selected optional equipment, the national-market version or the option for later enabling and software updates. This also applies to individual functions of the system.

For information on whether a function is currently available in the vehicle or when the function can be installed in the vehicle, contact an authorized service center or another qualified service center or repair shop.

Additional information:

Vehicle equipment, refer to page 8.

## General information

A recurring maneuver is driven manually and thereby recorded.

When the vehicle reaches the activation area for the distance covered by the stored maneuver, the maneuver can be activated on the control display or in the instrument cluster.

After the activation, the system takes control of the vehicle and carries out the maneuver automatically.

In addition, the parking maneuver can be performed using Remote Control Parking on a smartphone.

Follow the information in the Parking assistance systems chapter.

## Safety information

### WARNING

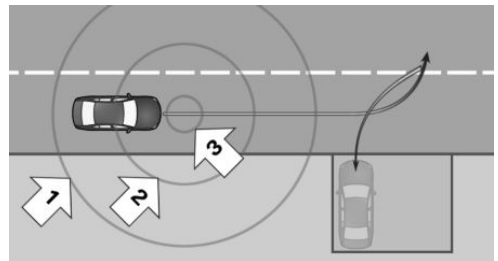
The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready

to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

The system can steer over or onto curbs, which can result in an accident. There is a risk of injury and risk of property damage. Watch surrounding traffic closely and actively intervene where appropriate.

## Detection range



The detection range for a maneuver is divided into the following areas:

- ▷ Proximity range, arrow 1: The system will begin with the localization in the background within a range of approx. 26 ft/8 m around the distance covered of a stored maneuver.
- ▷  Close range, arrow 2: In a range of approx. 6 ft/2 m around the distance covered, a stored maneuver can be displayed on the control display.
- ▷  Activation range, arrow 3: The stored maneuver on the control display can be activated within a range of approx. 3.5 ft/1 m. After the activation, the system takes control of the vehicle and carries out the maneuver automatically.

## Sensors

The system is controlled by the following sensors and cameras:

- ▷ Ultrasonic sensors in the front/rear bumpers.
- ▷ Ultrasonic sensors, side.
- ▷ Front camera.
- ▷ Top view cameras.
- ▷ Rear View Camera.

## Functional requirement

To use the Maneuver Assistant, the one-off calibration process of the camera after vehicle delivery must be complete. Drive a few kilometers in daylight to do so.

## Recording maneuver

### General information

Up to ten maneuvers can be recorded at different locations.

Up to four overlapping maneuvers can be recorded.

Identical maneuvers under different ambient conditions can be recorded such as light conditions.

For each maneuver, a maximum distance covered of 656 ft/200 m is possible.

In total, a distance covered of approx. 1,969 ft/600 m distributed to the ten possible maneuvers can be recorded.

Maneuvers with a distance covered of less than 20 ft/6 m cannot be recorded.

### Recording maneuver

1. Drive the vehicle to the starting point from which a maneuver should be recorded, then stop.

2.  Press the button.

The parking assistance systems view is displayed.

3.  "Record new path"

4. Drive the vehicle to the desired end position.



The maneuver is recorded.

When recording a route, do not drive faster than 9 mph /15 km/h.

While recording, the distance covered will be displayed.

When the maximum distance covered or the maximum speed is reached, a message will be displayed and a signal tone will sound.

5. Vehicle stationary: "Save recording".
6. To assign a name to the recorded maneuver, tap the name.
7. Enter a name and confirm.
8. Save your selection.

Do not move the vehicle until the recording has been stored.

## Performing stored maneuver

1. Drive the vehicle into the activation range and stop. The control display and instrument cluster indicate that a stored maneuver can be activated.

2.  : Activate stored maneuver.

 Green: After activation, the system takes control of the vehicle and performs the maneuver automatically. If applicable, follow the instructions on the control display or in the instrument cluster.

The speed can be reduced with the brake. Other interventions will cancel the system.

At the end of the parking operation, selector lever position P is set.

## Canceling the Maneuver Assistant manually

The vehicle can be controlled manually during an active maneuver by taking the following actions:

- ▷ Step lightly on the accelerator pedal twice in succession.
- ▷ Step lightly on the accelerator pedal and move the steering wheel slightly at the same time.
- ▷ Depress the brake pedal and operate the selector lever at the same time.

The Maneuver Assistant is canceled without engaging selector lever position P. Driving can continue immediately.

## Canceling the Maneuver Assistant automatically

The system automatically cancels in situations such as the following:

- ▷ When the driver grasps the steering wheel or takes over steering.
- ▷ When operating the accelerator pedal or the selector lever.
- ▷ When the driver's seat belt is not fastened.
- ▷ With open cargo area.
- ▷ With open hood.
- ▷ With the doors open.
- ▷ During activation or intervention by driver assistance systems.
- ▷ When the system limits of the ultrasonic sensors and cameras are reached.
- ▷ When changing over to another function on the control display.
- ▷ When the view on the control display is overlaid with messages.
- ▷ In case of obstacles.
- ▷ On snow-covered or slippery road.
- ▷ When the lane is too narrow.
- ▷ On steep uphill or downhill grades.

In the event of an automatic cancellation of the system, the vehicle is decelerated to a complete stop and selector lever position P is engaged.

An interrupted maneuver can be continued, if needed. Turn the Maneuver Assistant on again

and follow the instructions on the control display or in the instrument cluster.

## Editing stored maneuvers

Individual or all maneuvers can be deleted or renamed.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Driver Assistance"
5. "Parking"
6. "Recorded paths"
7. Select the maneuver to be edited.
8. Select the desired action.

## System limits

### General information

Follow the system limits in the Parking assistance systems chapter.

### Functional limitations

System limits can cause functional limitations such as in the following situations:

- ▷ With poor GPS reception.
- ▷ On steep uphill or downhill grades.
- ▷ In case of recorded maneuvers where the system minimum distance to objects cannot be maintained.
- ▷ Greatly deviating conditions when storing and driving the distance covered, for instance other tires or changed ambient conditions like light conditions or weather.
- ▷ Delayed display of overlapping stored maneuvers when driving into the activation area.
- ▷ In multi-story parking garages, for recordings at different parking levels, or for recordings that run over several parking levels.



If the calibration process for the camera is not completed after vehicle delivery, an icon appears on the display of the parking assistance systems when reverse gear is engaged.

Tap the icon and follow the instructions on the control display.

## Remote Control Parking

### Principle

With Remote Control Parking, the vehicle can be driven remotely from outside the vehicle when parking and maneuvering. This function can be used when parking and maneuvering with the Maneuver Assistant and Automatic Park Assistant.

When using this function, observe applicable national regulations.

The maneuver is performed independently, without you having to be inside the vehicle, using a smartphone and the My BMW App. This makes it easy to get in and out of the vehicle.

When parking in a suitable spot, e.g., a garage, the vehicle's parking position can be corrected by maneuvering manually with the My BMW App.

A maneuver that has already been started can be continued at any time with Remote Control Parking.

### Vehicle features and options

This system may not be available in the owned vehicle, e.g. due to the selected optional equipment, the national-market version or the option for later enabling and software updates. This also applies to individual functions of the system.

For information on whether a function is currently available in the vehicle or when the function can be installed in the vehicle, contact an

authorized service center or another qualified service center or repair shop.

Additional information:

Vehicle equipment, refer to page 8.

### General information

Note the information in the Automatic Park Assistant and Maneuver Assistant chapter.

Protect the smartphone against unauthorized use.

The low-beam headlights are switched on for the duration of the maneuver.

A parking operation offered by the Automatic Park Assistant is only available for Remote Control Parking for a short time after exiting the vehicle.

### Functional requirements

- ▶ All occupants have left the vehicle.
- ▶ Doors and cargo area are closed.
- ▶ Make sure that no one is located within range of the maneuver.
- ▶ Make sure that no one is located in the narrow spaces between the vehicle and stationary objects, e.g., between the vehicle and a garage wall.
- ▶ To manually correct the vehicle position in the My BMW App, the minimum width of the parking space must be the vehicle width plus 1.9 ft/0.6 m.
- ▶ The smartphone is compatible with Remote Control Parking.
- ▶ The My BMW App must be installed on a compatible smartphone.
- ▶ The My BMW App must be linked to a ConnectedDrive account.
- ▶ Bluetooth must be enabled on the smartphone.

- The distance between vehicle and smart-phone is no greater than approx. 19 ft/6 m.
- A valid digital key must be set up for the vehicle, then recognized without issue.

Additional information:

BMW Digital Key, refer to page 79.

## Parking with Remote Control Parking

1. Engage selector lever position P.
2. Leave the vehicle and close the doors and cargo area.
3. Open Remote Control Parking in the My BMW app and maneuver forward or backward, or select the desired parking method.
4. Follow the instructions on the smartphone.

Stop the vehicle manually if obstacles are present.

Depending on the option selected in the My BMW app, the vehicle is either parked at the end of the parking maneuver or you can take control of the vehicle again.

## System limits

Due to ambient conditions, e.g., impaired Bluetooth connection transmission due to external faults, Remote Control Parking may be interrupted.

If the power supply of the vehicle battery is not sufficiently ensured, e.g., due to excessive discharge, Remote Control Parking may not be available. Follow the instructions in the My BMW App.

It may not be easy to maneuver into a parking space. This function is offered on the My BMW app but cannot be used due to ambient conditions.

## Back Up Assistant

### Principle

The Back Up Assistant helps when reversing, e.g., when pulling out of tight or unclear parking or road situations.

### Vehicle features and options

This system may not be available in the owned vehicle, e.g. due to the selected optional equipment, the national-market version or the option for later enabling and software updates. This also applies to individual functions of the system.

For information on whether a function is currently available in the vehicle or when the function can be installed in the vehicle, contact an authorized service center or another qualified service center or repair shop.

Additional information:

Vehicle equipment, refer to page 8.

### General information

The vehicle stores the driving movements of the last distance covered. This stored distance can be driven in reverse with automated steering.

The system takes over the steering. The driver must control the speed using the accelerator and brake pedals.

Back Up Assistant: A maximum of 164 ft/50 m is saved.

Back Up Assistant Professional: A maximum of 656 ft/200 m is saved.

Follow the information in the Parking assistance systems chapter.



## Safety information

### WARNING

The system cannot serve as a substitute for the driver's personal judgment in assessing the traffic situation. Based on the limits of the system, it cannot independently react to all traffic situations. There is a risk of accident, injury, and property damage. Adjust driving style to traffic conditions. Watch the surrounding traffic situation closely, be ready to take over steering and braking at any time, and actively intervene where appropriate.

### WARNING

The system can steer over or onto curbs, which can result in an accident. There is a risk of injury and risk of property damage. Watch surrounding traffic closely and actively intervene where appropriate.

## Functional requirements

- ▶ Drive forward without interruption to store the distance covered.
- ▶ To save the distance covered, do not drive faster than 22 mph /35 km/h.
- ▶ Back Up Assistant Professional: Sufficiently bright light conditions on the saved route.
- ▶ Back Up Assistant Professional: The cameras on the vehicle must be clean and clear.
- ▶ Back Up Assistant Professional: The one-off calibration of the camera after vehicle delivery must be complete. Drive a few kilometers in daylight to do so.

## Driving in reverse with automated steering

1. Turn on the drive-ready state.
2.  With the vehicle at a standstill, press button or engage reverse gear.  
The parking assistance systems view is displayed.
3.  "Start Back Up Assistant"  
The length of the distance covered is displayed on the control display and in the instrument cluster.  
If applicable, follow the instructions on the control display or in the instrument cluster.
4. Take your hands off the steering wheel and carefully drive in reverse with the accelerator pedal and the brake.  
 Green: The system takes control of steering.  
When driving in reverse, observe the vehicle's surroundings.  
In case of obstacles, stop immediately and take over control of the vehicle. Follow the instructions for Park Distance Control.
5. Right before the end of the stored distance covered, a signal tone will sound and a message is displayed.  
Stop no later than when normal road traffic is reached and take control of the vehicle such as by shifting to forward gear.

## Canceling the Back Up Assistant manually

The assisted reversing by the Back Up Assistant can be canceled manually:

- ▶  "Cancel": Select the icon on the control display.
- ▶  Press the button.



## Canceling the Back Up Assistant automatically

The system automatically cancels in situations such as the following:

- ▶ When the driver grasps the steering wheel or takes over steering.
- ▶ When shifting from reverse gear to another selector lever position.
- ▶ During activation or intervention by driver assistance systems.
- ▶ When exiting the stored lane when reversing, for instance with maximum steering-wheel angle.
- ▶ When the view on the control display is overlaid with messages.
- ▶ In case of a slippery surface.
- ▶ When the vehicle is rolling such as on a slope.
- ▶ In case of changed ambient conditions.
- ▶ If the vehicle speed exceeds approx. 6 mph /10 km/h.
- ▶ Back Up Assistant Professional: If sensor functionality is limited beyond approx. 164 ft/50 m.

## System limits

- ▶ The maximum speed when reversing is limited to approx. 6 mph /10 km/h.  
A warning is issued at a speed of approx. 4 mph /7 km/h.  
If the maximum speed is exceeded, the function is interrupted.

Different influences can lead to side deviations when driving the stored distance covered in reverse. For example, this includes the following factors:

- ▶ Steering movements when the vehicle is stationary while storing the distance covered.
- ▶ The speed is not adapted to the distance covered.

- ▶ Certain road characteristics such as gradients, inclines or slippery road surface.
- ▶ Greatly deviating conditions when storing and driving the route, for instance other tires or changed ambient conditions like weather.
- ▶ Back Up Assistant Professional: For changed light conditions.

Also follow the information on system limits in the Parking assistance systems chapter.

# Driving comfort

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page [8](#).

## Adaptive M chassis

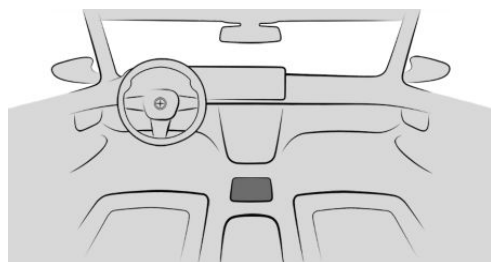
### Principle

By adjusting the running gear, the system reduces movement of the vehicle body when driving in a sporty way or on uneven roads.

This enhances the driving dynamics and driving comfort depending on the road condition and driving style.

### Overview

#### Button in the vehicle



SETUP

SETUP

## Programs

| Program      | Suspension settings  |
|--------------|----------------------|
| "COMFORT"    | Comfort-oriented.    |
| "SPORT"      | Balanced out.        |
| "SPORT PLUS" | Consistently sporty. |

## Selecting a program

### Using the button



Press the button and select the desired program on the control display.

### Via iDrive

Adaptive M running gear settings can be configured in M Setup.

Additional information:

M Setup, refer to page [216](#).

## Display in the instrument cluster



When the display for M Setup is activated in the instrument cluster, the selected program is displayed.

Additional information:

Central display area, refer to page [153](#).

# Climate control

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Climate control

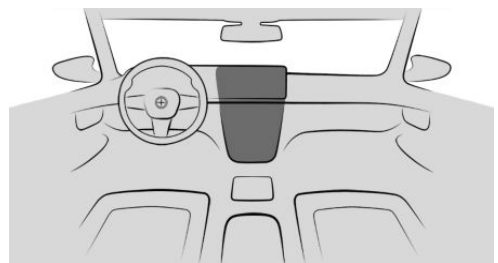
### Overview

#### Functions in the Climate menu

| Icon                                                                               | Function                                 |
|------------------------------------------------------------------------------------|------------------------------------------|
|    | Turn the air conditioning system on/off. |
|    | Automatic program.                       |
|   | Temperature in the vehicle interior.     |
|  | Air conditioning.                        |
|  | Maximum cooling.                         |
|  | Air recirculation mode.                  |
|  | Automatic air recirculation.             |

| Icon                                                                              | Function                 |
|-----------------------------------------------------------------------------------|--------------------------|
|  | Fresh air.               |
|  | Air flow.                |
|  | Air distribution.        |
|  | SYNC program.            |
|  | Seat heating.            |
|  | Active seat ventilation. |
|  | Steering wheel heating.  |

#### Buttons, air conditioning system



| Icon                                                                                | Function               |
|-------------------------------------------------------------------------------------|------------------------|
|  | Defrost function.      |
|  | Rear window defroster. |

## Rear air conditioning system

| Icon                                                                             | Function           |
|----------------------------------------------------------------------------------|--------------------|
|  | Automatic program. |
|  | Temperature.       |
|  | Air flow.          |
|  | Air distribution.  |
|  | Seat heating.      |

## Calling up climate control functions

The Climate menu can be accessed via iDrive:

-  Tap the icon for the Climate menu on the menu bar.

Or:

-  Apps menu
- "Vehicle"
- "Climate control"

## Turning the air conditioning system on/off

The air conditioning system can be turned on/off via iDrive.

-  Tap the icon for the Climate menu on the menu bar.
-  Tap the power button.

The entire air conditioning system is turned on/off with the last settings applied.

When the air conditioning system is on, individual climate control functions can be turned off.

Make sure that there is sufficient ventilation when staying in the vehicle for extended periods of time with the air conditioning system off, e.g., when sleeping.

## Settings

You can configure individual settings for climate control functions via iDrive, e.g.:

- ▷ Intensity of seat heating.
- ▷ Pre-conditioning.
- ▷ Air conditioning when getting in.

-  Tap the icon for the Climate menu on the menu bar.
- "Individual settings" or "General settings"
- Select the desired setting.

## Turning the rear air conditioning system on/off

### Functional requirements

- ▷ The air conditioning system is on.
- ▷ The defrost function is deactivated.

### Via iDrive

-  Tap the icon for the Climate menu on the menu bar.
- "Individual settings"
- "Second row of seats"
- "Rear climate control"
- Select the desired setting.

If the following setting is selected, the rear air conditioning system activates in AUTO with the default temperature settings whenever the engine is started:

"Activate with default settings"

Additional information:

Idle state, refer to page 45.

## Locking the rear air conditioning system



1. Tap the icon for the Climate menu on the menu bar.
2. "Individual settings"
3. "Second row of seats"
4. "Lock rear climate control"

## Automatic program

### Principle

The automatic program ensures a comfortable climate, which can be adjusted by setting the desired temperature and configuring the settings.

The automatic program cools, ventilates or heats the vehicle interior automatically.

### General information

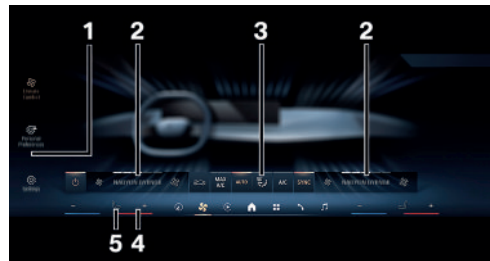
Depending on the equipment, the automatic program provides the best possible settings for climate control functions depending on the outside temperature, interior temperature, sunlight, seat occupancy and the desired temperature setting:

- ▶ Air flow.
- ▶ Air distribution.
- ▶ Temperature.
- ▶ Seat heating.
- ▶ Active seat ventilation.
- ▶ Steering wheel heating.

The AUTO program takes seat occupancy into account to ensure that the energy consumption is low and the air conditioning is tailored to the occupants.

At the same time, a condensation sensor controls the automatic program in order to prevent window condensation to the extent possible.

### Overview



- 1 Settings
- 2 Air flow intensity
- 3 Climate control functions bar
- 4 Temperature
- 5 Seat heating  
Steering wheel heating  
Active seat ventilation

### Turning the automatic program on/off

The AUTO program can be switched on or off via iDrive.



1. Tap the icon for the Climate menu on the menu bar.
2.  Tap the AUTO program button.

## Turning the automatic program on/off for the rear air conditioning system

### Via iDrive



1. Tap the icon for the Climate menu on the menu bar.
2. "Individual settings"
3. "Second row of seats"
4. "Automatic climate"
5. Select the desired setting.

### Via rear climate control display



Tap the button.

## Setting the intensity

When the automatic program is activated, the intensity of individual climate control functions, e.g., seat heating, is adjusted individually.



1. Tap the icon for the Climate menu on the menu bar.
2. "Individual settings"
3. Select the desired setting.

Each level has a specific control range of the intensity.

Based on the stored data models, the intensities are dynamically adjusted while driving. It is not necessary to manually change the desired intensity to lower or higher levels while driving.

The individually selected settings of the climate control functions are stored and automatically set up again such as after the vehicle is started again.

## Display

The indicator on the menu bar provides information about the temperature difference between the configured desired temperature and current interior temperature:

- ▶ The red or blue bar next to the temperature display indicates the progress of heating or cooling.
- ▶ The desired interior temperature is reached as soon as the bar is no longer displayed.

Active climate control functions, e.g., seat heating, are indicated by the icons on the menu bar.

## Temperature

### Principle

The air conditioning system cools or heats to the set temperature, keeping the temperature constant.

### General information

Do not rapidly switch between different temperature settings. Otherwise, the air conditioning system will not have enough time to adjust to the set temperature.

### Setting the temperature



You can set the desired temperature for driver and front passenger individually on the menu bar.

- ▷ + Raise the temperature.
- ▷ — Lower the temperature.

## Adjusting the temperature of the rear air conditioning system

### Via iDrive

1.  Tap the icon for the Climate menu on the menu bar.
2. "Individual settings"
3. "Second row of seats"
4. Set the desired temperature.

### Via rear climate control display

Depending on vehicle equipment, the temperature can be configured individually for the driver's side and front passenger side.

Set the desired temperature:

- ▷ + Raise the temperature.
- ▷ — Lower the temperature.

## Footwell temperature

### General information

The air temperature in the footwell can be adjusted.

This does not change the set interior temperature for the driver and front passenger.

### Adjusting the footwell temperature

1.  Tap the icon for the Climate menu on the menu bar.
2. "Individual settings"
3. "Driver" or "Front passenger"
4. "Temperature adjustment for footwell"
5. Increase or decrease temperature.

## Air flow

### Principle

The air flow generated by the blower can be adjusted as needed.

The air flow may be reduced to preserve the vehicle battery.

### Adjusting the air flow

The air flow can be set via iDrive:

1.  Tap the icon for the Climate menu on the menu bar.
2.  Select the desired setting.

Automatic program:

- ▷ Tap the large air flow icon to increase the air flow.
- ▷ Tap the small air flow icon to reduce the air flow.

Manual mode:

- ▷ Tap up arrow: Increase air flow.
- ▷ Tap down arrow: Reduce air flow.

### Adjusting the air flow of the rear air conditioning system

-  Tap the icon on the rear climate control display to set the desired intensity.

## Air distribution settings

### Principle

In manual mode, the air distribution can be adjusted as needed.

## Adjusting the air distribution

The air distribution can be set via iDrive:

1.  Tap the icon for the Climate menu on the menu bar.
2.  Tap the air distribution icon on the climate control functions bar.
3. Select the desired setting:
  - ▶ Aim the air flow into the footwell, arrow 1.
  - ▶ Aim the air flow toward the upper body area, arrow 2.
  - ▶ Aim the air flow at the windshield, arrow 3.

The selected air distribution is displayed.



## Adjusting the air distribution of the rear air conditioning system

-  Tap the icon on the rear climate control display to set the desired air distribution.

## Air conditioning

### Principle

With the climate control function, the air inside the vehicle is cooled and dehumidified, then warmed again depending on the temperature settings.

## Functional requirement

Standby or drive-ready state is turned on.

## Switching the cooling function on/off

The air conditioning can be switched on or off via iDrive:

1.  Tap the icon for the Climate menu on the menu bar.
2.  Tap the air conditioning button.

In recirculated-air mode, air conditioning is automatically switched on to dry the air and avoid window condensation.

Depending on the weather, the windshield and the side windows may fog up briefly when drive-ready state is switched on.

Condensation may form in the vehicle air-conditioning system. Condensation leaking under the vehicle is due to technical reasons and does not constitute a malfunction.

## Maximum cooling

### Principle

Maximum cooling lets you cool the vehicle interior quickly and effectively.

The lowest temperature and the maximum air flow are set automatically.

The function is automatically activated in the rear when the SYNC program is turned on.

## Functional requirement

The following functional requirements must be met for maximum cooling:

- ▶ The outside temperature is higher than approx. 32°F / 0°C.
- ▶ Standby or drive-ready state is turned on.



## Turning maximum cooling on/off

Maximum cooling can be turned on or off via iDrive:

1.  Tap the icon for the Climate menu on the menu bar.
2.  Tap the maximum cooling button.

Air flows out of the air vents to the upper body area. Open the vents.

## Air recirculation mode

### Principle

You may react to unpleasant odors or pollutants in the immediate environment by temporarily suspending the supply of outside air. The system then recirculates the interior air.

In automatic recirculated-air control mode, outside air is fed in or the interior air recirculated depending on the outside air quality.

When the air recirculation is turned off, outside air is directed into the interior.

### General information

If there is window condensation, turn off the air recirculation.

The interior filter cleans the incoming fresh air or the circulated interior air in recirculation mode.

### Turning air recirculation on/off

Air recirculation mode can be switched on or off via iDrive:

1.  Tap the icon for the Climate menu on the menu bar.
2. The current operating mode is displayed on the climate control functions bar. Tap the

button until the desired operating mode is set.

- ▷  Recirculating air.
- ▷  Fresh air.
- ▷  Automatic air recirculation.

Depending on vehicle equipment, the air recirculation turns off automatically after some time based on the ambient conditions in order to prevent condensation.

## SYNC program

### Principle

If the SYNC program is activated, the settings for the driver's side are transferred to the passenger's side and to the rear.

For improved comfort, when the SYNC program is deactivated, the following settings are adjusted automatically in the automatic program depending on seat occupancy:

- ▷ If the front passenger seat is unoccupied, the settings for the driver's side are applied to the front passenger side.
- ▷ If the seats in the rear are unoccupied, the default settings for the rear are applied.

When the seat is occupied again, the most recent settings are reapplied.

### General information

The following settings can be applied:

- ▷ Temperature.
- ▷ Air flow.
- ▷ Air distribution.
- ▷ Automatic program.



## Turning the SYNC program on/off

The SYNC program can be switched on or off via iDrive:

1.  Tap the icon for the Climate menu on the menu bar.

2.  Tap the SYNC program button.

If the settings on the front passenger side or in the rear are changed, the program is automatically switched off.

## Defrost function

### Principle

With the defrost function, ice and condensation are quickly removed from the windshield and the front side windows.

The air flow and air temperature are automatically optimized for the removal of ice and condensation.

The air distribution is directed toward the windshield and front side windows.

A clean windshield is less prone to fogging up. Clean the inner side of the windshield regularly.

If there is window condensation, turn on the automatic program to take advantage of the condensation sensor.

When the defroster is on, the rear air conditioning system is deactivated to provide maximum performance.

### Turning the defrost function on/off



Press the defrost button on the instrument panel.

The LED of the button is illuminated when the system is switched on.

Make sure that air is able to flow to the windshield and front side windows.

## Rear window defroster

### Principle

The rear window heating quickly removes ice and condensation from the rear window, depending on the outside temperature.

The rear window heating can either be set to turn off automatically after some time or used in continuous operation.

### Functional prerequisites

- ▷ Drive-ready state is switched on.
- ▷ The rear window heating can only be activated and kept on at an outside temperature of below approx. 41°F / 5°C.

### Turning the rear window defroster on/off



To turn the rear window heating on/off, press the rear window heating button on the instrument panel.

The LED in the button illuminates when the rear window heating is turned on.

If pre-conditioning is turned on, the rear window defroster is activated as needed.

To keep the rear window heating on, press and hold the button for at least 3 seconds.

## Seat heating

### Principle

The system heats the seats as necessary.

### General information

If the trip is continued within approx. 15 minutes after an intermediate stop, the functions

are turned on automatically with the temperature that was last set.

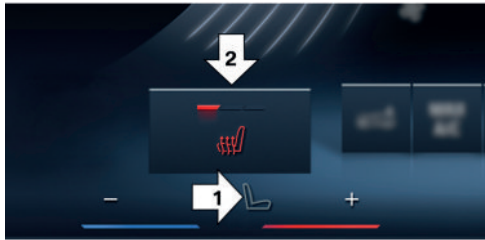
## Adjusting seat heating

### Automatic program

When the automatic program is activated, the intensity of seat heating can be adjusted. As you drive, the heater output is automatically adjusted according to your set intensity.

### Adjusting seat heating manually

The heater output level can be adjusted manually:



1. Tap the seat climate control icon on the menu bar, arrow 1.
2.  Tap the seat heating button repeatedly until the desired level is selected, arrow 2.

To turn off the seat heating, press and hold the seat heating button for approx. three seconds.

## Turning the rear seat heating on/off



Tap the icon on the rear air-conditioning display to set the desired heater output level.

## Active seat ventilation

### Principle

This system cools the seats and backrests as necessary, ensuring a pleasant seat temperature.

## Adjusting active seat ventilation

### Automatic program

When the AUTO program is on, the intensity of seat ventilation can be adjusted. As you drive, the ventilation is automatically adjusted according to the set intensity.

### Adjusting the active seat ventilation manually

The ventilation level can be adjusted manually:



1. Tap the seat climate control icon on the menu bar, arrow 1.
2.  Tap the seat ventilation button repeatedly until the desired level is selected, arrow 2.

## Steering wheel heating

### Principle

The system heats the steering wheel as necessary.

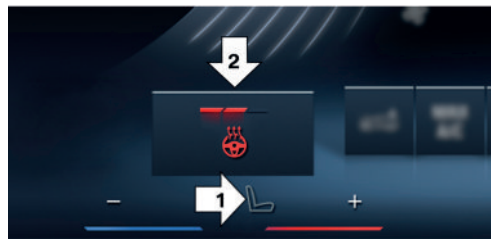
## Adjusting steering wheel heating

### Automatic program

When the automatic program is activated, the intensity of steering wheel heating can be adjusted. As you drive, the heater output is automatically adjusted according to your set intensity.

### Adjusting steering wheel heating manually

The heater output level can be adjusted manually:



1. Tap the seat climate control icon on the menu bar, arrow 1.

2.  Tap the steering wheel heating button repeatedly until the desired level is selected, arrow 2.

## Ventilation

### Principle

The ventilation system offers individual adjustment ranges for direct/indirect ventilation in order to optimize the flow of air within the vehicle.

### General information

Open the air vents and position them to ensure effective air conditioning.

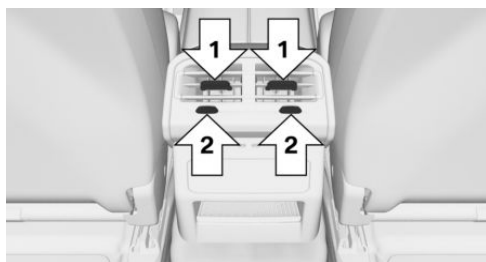
The air flow heats or cools noticeably, depending on the set desired temperature.

### Front ventilation



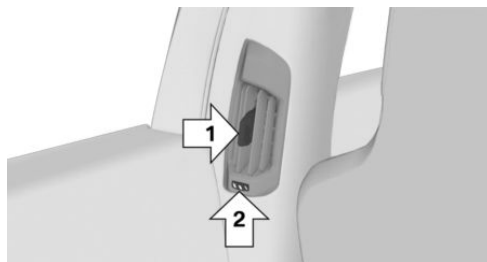
- Change the air flow direction, arrows 1.
- Adjustment of the air volume at the vent, arrows 2.

### Ventilation in the rear



- Change the air flow direction, arrows 1.
- Variably opening/closing the air vents, arrows 2.

## Ventilation in the rear, on the side



- ▷ Lever for changing the airflow direction, arrow 1.
- ▷ Thumbwheel for variable opening and closing of the air vents, arrow 2.

## Setting the ventilation

Depending on the desired ventilation, align the air flow directly or indirectly toward the passengers.

## Air quality

### General information

The air quality in the interior is improved by the following components:

- ▷ Emission tested passenger compartment.
- ▷ Interior filter.
- ▷ Air conditioning system to control the temperature, air flow, and air recirculation.
- ▷ Pre-conditioning.

### Interior filter

The interior filter cleans the incoming fresh air or the circulated interior air in recirculation mode.

Depending on the equipment:

- ▷ Dust and pollen is filtered out from the incoming air.
- ▷ Nano-particle emissions are reduced.

- ▷ Gaseous pollutants are filtered.
- ▷ Microbial particles, viruses and allergens are filtered.

The manufacturer of the vehicle recommends having the interior filter changed during preventive maintenance of the vehicle.

## Pre-conditioning

### Principle

Pre-conditioning cools or heats the vehicle interior to a comfortable temperature, depending on the inside/outside temperature, prior to starting a trip. This function makes it easier to remove snow and ice.

### General information

The pre-conditioning can be switched on and off directly or via a preset departure time.

The air moves automatically through the air vents to the windshield, the side windows, the upper body area, and the footwell.

The system switches off automatically after approx. 30 minutes or when the drive-ready state is activated.

If pre-conditioning is used during the charging process, less air conditioning capacity will be required while driving. This increases the range.

### Functional requirements

- ▷ The vehicle is in idle state or standby state.
- ▷ The high-voltage battery is sufficiently charged or the charging process is ongoing.  
If the high-voltage battery is deeply discharged, it may take some time for the pre-conditioning to be ready after the charging process is started.
- ▷ The time and date are set correctly.
- ▷ The air vents are open.

## Turning on/turning off the pre-conditioning

### Turning on/turning off via iDrive

1.  Tap the icon for the Climate menu on the menu bar.
2. "Pre-conditioning"
3. Select the desired setting.

### Turning on via vehicle key

The system can be switched on using the vehicle key.



Press the button on the vehicle key three times within 1 second.

The pre-conditioning turns on approx. 3 seconds after the vehicle key is pressed.

### Automatic switch-off

To ensure the vehicle's starting capability, the pre-conditioning may shut off automatically, for example:

- ▶ After turning on several times.
- ▶ Because the high-voltage battery has an insufficient state of charge.

Charge the high-voltage battery if it turns off due to insufficient state of charge. The pre-conditioning is then available again.

## Air conditioning for departure time

### General information

Departure times can be set with time and day of the week.

The switch-on point is determined automatically based on the ambient conditions.

This system turns on promptly before the set departure time.

The departure time is preselected in two steps:

- ▶ Set departure times.
- ▶ Activate departure times.

Wait at least ten minutes between setting and activating the departure time and departing at the planned time. This gives the air conditioning sufficient time to bring the vehicle interior to the desired temperature.

Pre-conditioning will be turned off automatically a few minutes after the set departure time.

### Setting the departure time

1.  Tap the icon for the Climate menu on the menu bar.
2. "Pre-conditioning"
3. "Departure plan"
4. Set the desired departure time.
5. Select day of the week, if needed.

### Activating the departure time

To turn on the pre-conditioning prior to a departure time, the respective departure time must be activated beforehand.

1.  Tap the icon for the Climate menu on the menu bar.
2. "Pre-conditioning"
3. "Pre-conditioning for departure"

### Display on the instrument cluster

| Icon                                                                                | Description                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------|
|  | Icon illuminates: A departure time is activated. |
|                                                                                     | Icon flashes: Pre-conditioning is switched on.   |

## Activating with My BMW App

Depending on vehicle equipment, the My BMW App with remote functionality can be used to turn on pre-conditioning at a preset departure time or immediately.

# Interior equipment

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Integrated universal remote control

### Principle

The integrated universal remote control in the interior mirror can operate remote-controlled systems such as garage doors, alarm systems, or locking systems.

### General information

The integrated universal remote control replaces various hand-held transmitters for remote-controlled systems. The buttons on the interior mirror must be programmed before they can be used.

If possible, do not install the antenna of the remote-controlled system near metal objects to ensure the best possible operation.

### Safety information

#### **WARNING**

The operation of remote-controlled systems with the integrated universal remote control such as the garage door may result in injury, for example, body parts becoming jammed in a garage door. There is a risk of injury and risk of property damage. Make sure that the travel path of the respective system is clear

during programming and operation. Also follow the safety instructions of the hand-held transmitter.

### Overview



- ▷ Buttons, arrow 1.
- ▷ LED, arrow 2.
- ▷ Hand-held transmitter of the remote-controlled system, arrow 3.

### Compatibility



If this icon is printed on the packaging or in the operating instructions of the remote-controlled system, the system is generally compatible with the integrated universal remote control.

Additional questions are answered by:

- ▷ An authorized service center or another qualified service center or repair shop.
- ▷ [www.homelink.com](http://www.homelink.com) on the Internet.

HomeLink is a registered trademark of Gentex Corporation.

For any additional questions, contact an authorized service center or another qualified service center or repair shop.



## Programming the integrated universal remote control

### Functional requirements

To program the integrated universal remote control, the following functional requirements must be met:

- ▶ To ensure optimum range of the integrated universal remote control, the hand-held transmitter's battery must be fully charged at the time of programming.
- ▶ The vehicle is parked within range of the remote-controlled system.
- ▶ There are no persons or objects in the area around the remote-controlled system.
- ▶ Standby state is switched on.

### Programming individual buttons

1. Select desired button on the interior mirror:
  - ▶ Program available button:  
Press the button.
  - ▶ Program already assigned button:  
Press and hold the button for approx. 20 seconds.  
The LED on the interior mirror will slowly begin flashing orange.
2. Hold the hand-held transmitter for the remote-controlled system at a distance of approx. 1 to 3 in / 3 to 8 cm away from the buttons on the interior mirror.  
The required distance depends on the hand-held transmitter and can be found in the operating instructions for the remote-controlled system.
3. Press and hold the button on the hand-held transmitter until the LED on the interior mirror illuminates green. Programming is complete.

If programming could not be completed, the LED may react in different ways:

- ▶ LED flashes green: The hand-held transmitter has been detected but programming is not complete. Continue with the specific features for rolling code radio systems.
- ▶ If the LED does not illuminate green after 60 seconds, programming could not be completed. Repeat the programming procedure.

### Special feature of the rolling code wireless system

For systems with a rolling code radio system, the integrated universal remote control and the system also have to be synchronized. Refer to information on synchronization in the operating instructions of the remote-controlled system. Synchronization is easier with the aid of a second person.

1. Program the desired button on the interior mirror.
2. Press the synchronize button on the remote-controlled system, e.g., on the garage door.
3. Within 30 seconds, press and hold the programmed button on the interior mirror for approx. 3 seconds.

When synchronization is complete, the programmed function is performed, e.g., opening the garage door.

If the function is not performed, repeat this step up to three times, if necessary, until the synchronization is complete and the programmed function is performed as desired.

### Operation

After programming, the remote-controlled system can be operated with the button on the interior mirror.

Press and hold the desired button on the interior mirror within range of the remote-controlled system until the function activates.



The interior mirror LED illuminates green while the wireless signal is being transmitted.

## Deleting a button assignment

The programming for the interior mirror buttons can be deleted, e.g., before selling the vehicle.

Press and hold the two outer buttons on the interior mirror simultaneously for approx. 10 seconds until the LED flashes green.

All stored button assignments will be deleted.

## Sun visor

### Glare shield

Fold the sun visor down or up.

### Glare shield from the side

### Folding the sun visor out

1. Fold the sun visor down.
2. Detach it from the holder and swing it toward the side window.

### Folding the sun visor in

Proceed in the reverse order to close the sun visor.

### Vanity mirror

A vanity mirror is located in the sun visor behind a cover.

## Sockets

### Principle

The socket can be used for electronic devices when the standby or drive-ready state is switched on.

## General information

The total load of all sockets must not exceed 140 watts at 12 volts.

## Safety information



### WARNING

Devices and cables in the unfolding area of the airbags such as portable navigation devices can hinder the unfolding of the airbag or be thrown around in the car's interior while unfolding. There is a risk of injury and risk of property damage. Make sure that devices and cables are not in the airbag's area of unfolding.



### WARNING

If metal objects fall or are plugged into electronic interfaces, e.g., sockets or USB ports, these objects can cause a short circuit and destroy the interface. There is a risk of injury and risk of property damage. Make sure to prevent metal objects from falling or being plugged into electronic interfaces. Close the socket again after use, e.g., with the socket cover.



### WARNING

Battery chargers that charge the vehicle battery from sockets in the vehicle may overload or damage the 12V electrical system. There is a risk of injury and risk of property damage. Only connect battery chargers for the vehicle battery to the jump-start terminals in the engine compartment.

**⚠ NOTICE**

Unsuitable connectors or exceeding the maximum power consumption can damage the socket and the vehicle electrical system. There is a risk of property damage. Only use devices with suitable connectors. Make sure that the maximum power consumption of all sockets is not exceeded.

## Front center armrest



The center armrest contains a socket.

## USB port

### Principle

The USB port is an interface used to connect mobile devices to the vehicle via USB cable. Data can then be sent or the mobile device can be charged.

### General information

The range of functions of the USB port is indicated by an icon.

| Icon                                                                              | Meaning                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Compatible mobile devices are supplied with charging current.                                                                                                                                               |
|  | USB sticks, for example, can be connected to USB ports that support data transfer in order to play audio or to update navigation data.<br><br>Compatible mobile devices are supplied with charging current. |

The following mobile devices can be connected to the USB port with data transmission:

- ▷ Mobile phones.
- ▷ Audio device.
- ▷ USB storage devices.

Additional information:

USB audio or map update, see Owner's Manual for Navigation, Entertainment, Communication, refer to page 6.

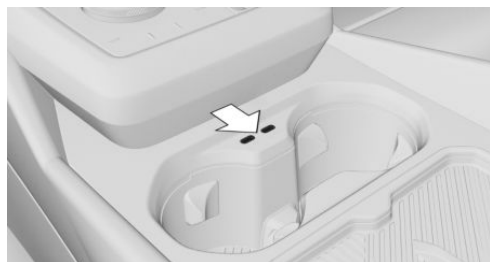
## Safety information

**⚠ WARNING**

If metal objects fall or are plugged into electronic interfaces, e.g., sockets or USB ports, these objects can cause a short circuit and destroy the interface. There is a risk of injury and risk of property damage. Make sure to prevent metal objects from falling or being plugged into electronic interfaces. Close the socket again after use, e.g., with the socket cover.



## In the front center console

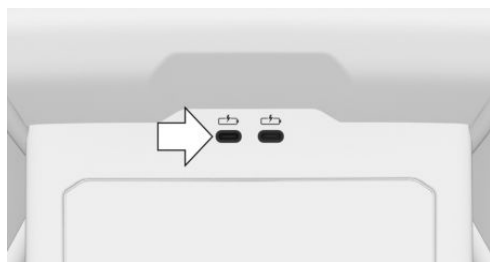


Two USB ports are located in the center console.

Properties:

- ▶ USB port Type C.
- ▶ For charging mobile devices and for data transfer.
- ▶ Charge current: Maximum 3 A per port.

## In the rear center console



Two USB ports are located in the center console in the rear passenger compartment.

Properties:

- ▶ USB port Type C.
- ▶ For charging mobile devices.
- ▶ Charge current: Maximum 3 A per port.

## Functional requirement

- ▶ The mobile device must support the maximum charging current of the USB port.
- ▶ The mobile device must support Mass Storage Class mode.

- ▶ Compatible device with USB port.
- ▶ A compatible file system is installed on the mobile device. FAT32 and exFAT are the recommended formats.

## Connecting the device

Connect the USB device using a suitable adapter cable to a USB port.

Observe the following when connecting:

- ▶ Do not use force when plugging the connector into the USB port.
- ▶ Use a flexible adapter cable.
- ▶ Protect the USB device against mechanical damage.
- ▶ Due to the large number of USB devices available on the market, it cannot be guaranteed that every device is operable on the vehicle.
- ▶ Do not expose USB devices to extreme environmental conditions such as very high temperatures, refer to the operating instructions of the device.
- ▶ Due to the many different compression techniques, proper playback of the media stored on the USB device cannot be guaranteed in all cases.
- ▶ To ensure that saved data is transferred properly, do not charge the USB device from the 12V socket if the USB device is connected to a USB port.
- ▶ It may be necessary to configure the device settings in order to enable data transferring.

The connected USB device is shown in the device list on the control display.

## Non-compatible USB devices

- ▶ USB hard drives.
- ▶ USB hubs.
- ▶ USB memory card readers with multiple slots.

- HFS-formatted USB devices.
- Devices such as fans or bulbs.
- Devices with a power consumption of more than 1.5 A or 3 A at 5 V, depending on the type of USB port.

## Travel & Comfort system

### General information

The front seat backrests have mounts and various connection options:

- Mounts for attaching optional accessories, e.g., universal holders for tablets or coat hangers.
- USB ports.

Properties of the USB ports:

- USB port Type C.
- For charging mobile devices.
- Charge current strength: Max. 3 A / 45 W per seat.

### Attaching optional accessories

1. Slide the cover down.



2. Mount the optional accessories, refer to Assembly Instructions.

For more information, contact an authorized service center or another qualified service center or repair shop.

## Wireless charging tray

### Principle

The wireless charging tray is used to wirelessly charge Qi-certified smartphones.

### General information

Different charging powers, e.g., fast charging, are supported depending on the smartphone.

The integrated fan cools the smartphone being charged.

When inserting the smartphone to be charged, make sure that there is nothing between the smartphone to be charged and the wireless charging tray.

⚡ The charging process is shown by the charging indicator on the control display.

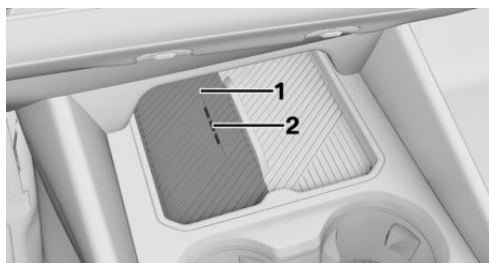
### Safety information

#### **WARNING**

When charging a device in the Wireless Charging tray, any metal objects in the tray with this device may become very hot. Storage media or electronic cards, e.g., chip cards, cards with magnetic strips, or cards for transmitting signals, may not function correctly when placed together on the tray with the device. There is a risk of injury and risk of property damage. When charging mobile devices, make sure there are no objects on the tray with the device.

### Overview

Wireless charging tray in center console:



- 1 Wireless charging tray
- 2 Fan

## Functional requirements

The following functional requirements apply for the wireless charging tray:

- ▶ The smartphone being charged must be Qi-certified.
- ▶ Standby state is switched on.
- ▶ The charging function is on.
- ▶ The smartphone cannot exceed maximum dimensions of approx. 6.69 x 3.34 x 0.7 in/170 x 85 x 18 mm.
- ▶ Protective sleeves and covers must be suitable for wireless charging.
- ▶ The smartphone being charged has been placed in the center of the wireless charging tray. The smartphone display is facing up.

## Activating/deactivating charging

1. Apps menu
2. "Vehicle"
3. "System settings"
4. "Wireless Charging tray"
5. "Wireless charging"

## Inserting a smartphone

Place the smartphone in the center of the wireless charging tray on the driver's side, with the display facing up.

## Forgotten warning

### General information

A warning may be issued if a Qi-certified smartphone was forgotten in the wireless charging tray when leaving the vehicle.

The forgotten warning is displayed in the instrument cluster.

### Enable/Disable Forgotten Warning

1. Apps menu
2. "Vehicle"
3. "System settings"
4. "Wireless Charging tray"
5. "Mobile phone reminder"

## System limits

The charge current may be reduced or charging may be temporarily interrupted in the wireless charging tray in the following situations:

- ▶ Due to excessive temperatures of the wireless charging tray and smartphone.
- ▶ If there are objects between the smartphone and wireless charging tray.
- ▶ If storage media or electronic cards, e.g., chip cards, cards with magnetic stripes, or cards for signal transmission, are located between the smartphone and wireless charging tray.
- ▶ Due to protective sleeves and covers that exceed a thickness of 0.07 in/2 mm.
- ▶ Due to protective sleeves and covers made of unsuitable material, e.g., with magnetic parts.
- ▶ Due to add-on parts for the smartphone, e.g., holders.
- ▶ By configuring the smartphone settings, e.g., for charging. Follow the instructions given on the control display and smartphone, as applicable.

## Interior camera

### Principle

The interior camera can be used to record the vehicle interior.

### General information

The interior camera can provide the following functions:

- ▷ Interior camera function.  
You can record, save and display media.
- ▷ Remote Inside View.  
The vehicle interior can be recorded using the My BMW App.
- ▷ Anti-Theft Recorder.  
If the alarm system is triggered, the vehicle interior is automatically recorded. Recordings can also be played using the My BMW App.

### Data protection

#### General information

The permissibility of recording and using recordings is contingent upon the statutory regulations of the country in which the system is to be used. The user is responsible for the use of the system and compliance with the respective regulations.

The vehicle manufacturer recommends that you verify there are no statutory or regulatory restrictions on using the system in your region or country prior to initial use. In addition, the laws with respect to use of the system should be verified in regular intervals, especially when borders are frequently crossed.

Other users and occupants of the vehicle must be informed about the system. In addition, information about the system is required when handing off the vehicle.

### Data transfer and data storage

Whether recording data will be sent or stored depends on the recording function.

Interior camera:

- ▷ Data transfer to a mobile device, connection to the vehicle via Wi-Fi.
- ▷ Data is saved to the vehicle and assigned to the BMW ID or driver profile.

Remote Inside View:

- ▷ Sending data to a mobile device via the My BMW App, connected with ConnectedDrive account.
- ▷ Data is saved to the My BMW App and, after data is sent, to the mobile device.

Anti-Theft Recorder:

- ▷ Sending data to a mobile device via the My BMW App, connected with ConnectedDrive account.
- ▷ Data is stored in the vehicle and after the data transfer in the mobile device.

More information on the scope and content of data processing is available on the Internet in the ConnectedDrive privacy notices/service descriptions.

### Occupying the seats

The interior camera is also used for the detection of occupied seats.

When all doors are closed, the interior camera switches on automatically on a regular basis. This system analyzes the vehicle interior to detect which seats are occupied. No media recordings are made in the process. Two infrared light sources next to the camera lens illuminate while the interior camera is active. Depending on the lighting conditions, the infrared light sources may be visible.

### Functional requirements

Interior camera:

- ▷ Privacy Policy accepted.

Data protection, refer to page 68.

- ▶ The camera is activated.

To transfer recordings to mobile devices:

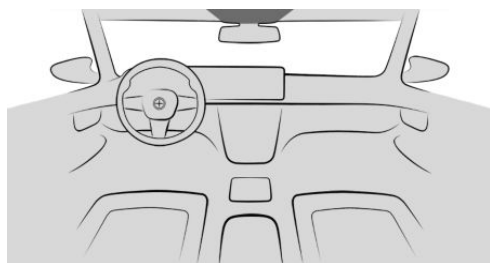
- ▶ Data transfer is activated.
- ▶ Mobile device is connected to the vehicle via Wi-Fi.

Remote Inside View/Anti-Theft Recorder:

- ▶ Privacy Policy accepted.
- ▶ My BMW App is installed on the mobile device.
- ▶ My BMW App is linked with the ConnectedDrive account.
- ▶ Vehicle is parked and locked.
- ▶ Anti-Theft Recorder: Equipped with alarm system.

Ensure that the faces of occupants are visible and are not partially or completely covered, for instance by face masks.

## Overview



The interior camera is located on the headliner.

Additional information:

Around the headliner, refer to page 37.

## Activating/deactivating interior camera

Prior to the first use of the interior camera, the recording function and, if necessary, data transfer must be activated. To do this, confirm the query on the control display. Additional

activation may be required for some system functions.

Follow applicable legal regulations.

The recording function or data transfer can be deactivated or activated.

1. Apps menu
2. "All apps"
3. "Interior camera"
4. "Settings"
5. Select the desired setting.

## Interior camera

### Recording mode

| Recording mode      | Function                                                      |
|---------------------|---------------------------------------------------------------|
| "Single photo"      | Shortly after triggering, a photo will be taken.              |
| "Smile"             | When the system detects a smile, a picture will be taken.     |
| "Self-timer (3 s.)" | After the timer has expired, a photo will be taken.           |
| "Burst mode"        | Shortly after triggering, a series of pictures will be taken. |

### Take picture

1. Apps menu
2. "All apps"
3. "Interior camera"
4. "Photo"
5. Select desired recording mode.
6. Triggering a photo.

Depending on the selected recording mode, the photo occurs shortly after the triggering, when a smile is recognized or the timer has elapsed.

For burst shots, the series of pictures will be displayed as a preview.





## Recording video

1. "MENU"
2. "All apps"
3. "Interior camera"
4. "Video"
5. Start video recording.

You can only record video for a certain time.

## Displaying and managing recordings

Saved recordings can be displayed, transferred and deleted in the vehicle.

With some national-market versions, recordings are only shown on the control display when the vehicle speed is less than approx. 2 mph /3 km/h for safety reasons.

1.  Apps menu
2. "All apps"
3. "Interior camera"
4. "Gallery"
5. Select the desired recording.
6. Select the desired setting.

Scan the QR code shown on the control display to send recordings to a mobile device. The recording is transferred when the pop-up on the mobile device is opened. The mobile device must be connected to the vehicle via Wi-Fi.

## Settings

1.  Apps menu
2. "All apps"
3. "Interior camera"
4. "Settings"
5. Select the desired setting.

An individual gesture can be assigned for recordings with the interior camera.

## Remote Inside View

Recordings of the vehicle interior can be played on a mobile device using the My BMW App in order to check the vehicle interior, e.g., for forgotten objects.

The function is not suitable for monitoring people or animals left behind.

## Anti-Theft Recorder

If the alarm system is triggered, the vehicle interior is automatically recorded. The My BMW App issues a notification when recordings are being taken. The recording can be shown on a mobile device.

Up to three recordings can be saved to the vehicle and synchronized with the My BMW App. If the vehicle is reset to factory settings, recordings saved to the vehicle are deleted.

# Storage compartments

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Safety information

### WARNING

When driving, loose items or devices connected to the vehicle with a cable, i.e., mobile phones, may be thrown around the vehicle, e.g., in the event of an accident or when braking or performing evasive maneuvers. There is a risk of injury and risk of property damage. Secure loose objects or devices that are connected to the vehicle via a cable.

### WARNING

Breakable objects such as glass bottles or glasses can break in the event of an accident, braking or an evasive maneuver. Broken glass can be scattered in the car's interior. There is a risk of injury and risk of property damage. Do not use any breakable objects while driving. Only stow breakable objects in closed storage compartments.

### WARNING

Open flaps of the storage compartments, e.g., glove compartment or center armrest, protrude into the interior when folded open and may be in the way of an airbag that

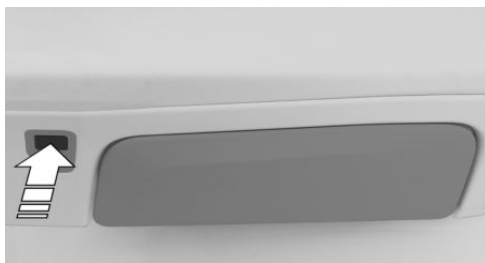
deploys. In addition, objects in the open storage compartment can be thrown into the vehicle interior during the trip, for instance, in the event of an accident or when braking or making an evasive maneuver. There is a risk of injury. Always close storage compartments immediately after use.

### WARNING

Anti-slip mats and similar underlays can damage the instrument panel. Attached objects could come loose. There is a risk of injury and risk of property damage. Do not use anti-slip pads.

## Glove compartment

### Opening the glove compartment



Press the button.

### Closing the glove compartment

Fold the lid closed.

### Locking the glove compartment

The glove compartment can be locked with an integrated key. This prevents access to the glove compartment.

After the glove compartment has been locked, the vehicle key can be given to someone without the integrated key, for example, when the car is being parked by a parking attendant.

Additional information:

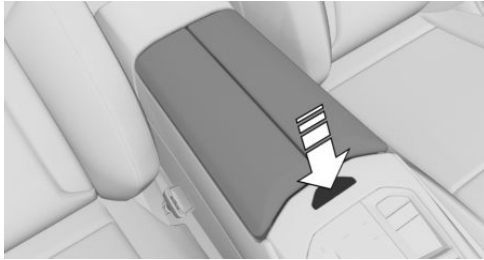
Integrated key, refer to page 74.

## Front center armrest

### General information

Storage compartments are located in the center armrest between the seats.

### Opening the center armrest



Press the button.

### Closing the center armrest

Press both lids down until they engage.

## Front cup holder

### Safety information

#### **WARNING**

Unsuitable containers in the cup holders may damage the cup holders or be thrown about the car's interior in the event of an accident, an evasive maneuver, or forceful braking. Spilled liquids can distract from the surrounding traffic conditions, lead to an accident and damage vehicle components. Hot drinks can

damage the cup holder or lead to scalding. There is a risk of injury and risk of property damage. Do not force objects into the cup holder. Make sure that drink containers are secured firmly in the cup holder. Use lightweight, shatterproof, and sealable containers. Clean up spilled liquids immediately. Do not transport hot beverages.

### Overview



Two cup holders are located in the center console.

## Rear cup holder

### Safety information

#### **WARNING**

Unsuitable containers in the cup holders may damage the cup holders or be thrown about the car's interior in the event of an accident, an evasive maneuver, or forceful braking. Spilled liquids can distract from the surrounding traffic conditions, lead to an accident and damage vehicle components. Hot drinks can damage the cup holder or lead to scalding. There is a risk of injury and risk of property damage. Do not force objects into the cup holder. Make sure that drink containers are secured firmly in the cup holder. Use lightweight, shatterproof, and sealable contain-

ers. Clean up spilled liquids immediately. Do not transport hot beverages.

## Overview



Two cup holders are located in the center armrest.

## Coat hooks

### General information

The coat hooks are located in the grab handles and on the door pillar in the rear.

### Safety information

#### **WARNING**

Clothing articles on the coat hooks can obstruct the view while driving. There is a risk of accident, injury, and property damage. When suspending clothing articles from the coat hooks, ensure that they will not obstruct the driver's view.

#### **WARNING**

Improper use of the coat hooks can lead to a risk of objects flying about during braking and evasive maneuvers. There is a risk of injury and risk of property damage. Only hang lightweight objects, for instance clothing articles, from the coat hooks.

# Cargo area

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Loading

### Safety information

#### **WARNING**

High gross vehicle weight can overheat the tires, damage them internally and cause a sudden tire pressure loss. Driving characteristics may be negatively impacted, reducing directional stability, lengthening the braking distances and changing the steering response. There is a risk of accident, injury, and property damage. Note the permissible load-carrying capacity of the tires, and do not exceed the gross vehicle weight.

#### **WARNING**

When driving, loose items or devices connected to the vehicle with a cable, i.e., mobile phones, may be thrown around the vehicle, e.g., in the event of an accident or when braking or performing evasive maneuvers. There is a risk of injury and risk of property damage. Secure loose objects or devices that are connected to the vehicle via a cable.

#### **WARNING**

Improperly stowed objects can slip and be thrown into the car's interior, for instance in the event of an accident, braking or an evasive maneuver. Vehicle occupants can be hit and injured. There is a risk of injury and risk of property damage. Stow and secure objects and cargo properly.

#### **NOTICE**

Fluids in the cargo area can cause damage. There is a risk of property damage. Make sure that no fluids leak in the cargo area.

## Steps for Determining Correct Load Limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs.  $(1400 - 750 (5 \times 150) = 650 \text{ lbs.})$
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the

available cargo and luggage load capacity calculated in Step 4.

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

## Payload

 ≤ Max. Load

 ≤ Max. Load

 ≤ Max. Load

The maximum payload is the sum of the weight of the occupants and the cargo.

The greater the weight of the occupants, the less cargo that can be transported.

## Stowing and securing cargo

- ▶ Cover sharp edges and corners on the cargo.
- ▶ Do not stack cargo above the upper edge of the backrests.
- ▶ If necessary, fold down the rear backrests to stow large cargo.
- ▶ Fasten the aids for securing the load to the lashing eyes in the cargo area.
- ▶ Small and light cargo: Secure with tensioning straps or tension bands or with a cargo net.
- ▶ Larger and heavy cargo: Secure with cargo straps.
- ▶ Heavy cargo: Stow as far forward as possible, directly behind and at the bottom of the rear seat backrests.
- ▶ Very heavy cargo: Stow as far forward as possible, directly behind and at the bottom

of the rear seat backrests. When the rear seat is not occupied, secure each of the outer seat belts in the opposite buckle.

## Lashing eyes in the cargo area

### General information

Attach auxiliary materials to secure the cargo such as lashing straps, tensioning straps, draw straps, or cargo nets to the lashing eyes.

### Overview



The lashing eyes are located in the cargo area.

## Multifunction hook

### General information

A multifunction hook is located on the left and right side in the cargo area.

### Safety information

#### WARNING

Improper use of the multifunction hooks can lead to a risk of objects flying about, e.g., during braking and evasive maneuvers. There is a risk of injury and risk of property damage. Only hang lightweight objects from the multi-

function hooks. Heavy luggage in the cargo area must be properly secured.

## Weight

The multifunction hooks can only hold items with a maximum weight of 7 lbs/3 kg.

## Enlarging the cargo area

### Principle

The cargo area can be enlarged by folding down the rear seat backrests.

### General information

The rear seat backrest is divided at a ratio of 40–20–40. The right rear seat backrest and the center section can be folded down separately. The left rear seat backrest can be folded down together with the center section.

The rear seat backrests can be folded down from the cargo area. The center section can be separately folded down from the rear.

### Safety information

#### **WARNING**

Vehicle parts can be damaged or body parts jammed when folding down the rear seat backrest. There is a risk of injury or risk of property damage. Make sure that the area of movement of the rear seat backrest including head restraint is clear when folding down.

#### **WARNING**

If a rear seat backrest is not locked, unsecured cargo can be thrown about the car's interior; for instance, in the event of an accident, braking or an evasive maneuver. There is a risk of injury and risk of property damage.

Before starting a trip, fold back the seat backrest and lock it.

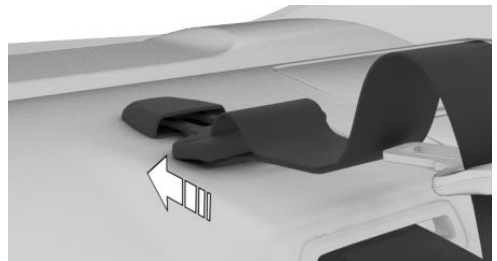
#### **WARNING**

The stability of the child restraint system is limited or compromised with incorrect seat setting or improper installation of the child seat. There is a risk of injury and danger to life. Make sure that the child restraint system fits securely against the backrest. If possible, adjust the backrest tilt for all affected backrests and correctly adjust the seats. Make sure that seats and backrests are securely engaged or locked. If possible and necessary, adjust the height of the head restraints or remove them.

## Folding down the rear seat backrest

### From the cargo area

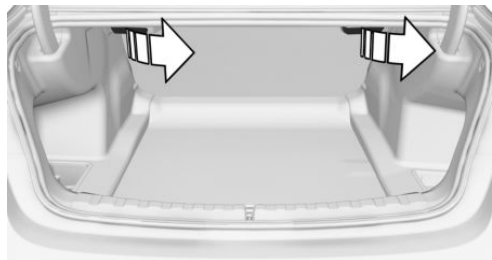
1. Unlock the belt lock of the center seat belt in the rear using the buckle tongue of another seat belt.
2. Insert the buckle tongue at the end of the belt into the specially designated fixture on the rear shelf.



3. Push the corresponding head restraint down as far as it will go.
4. Pull the corresponding lever in the cargo area to release the rear seat backrest. The



unlocked rear seat backrest moves forward slightly.



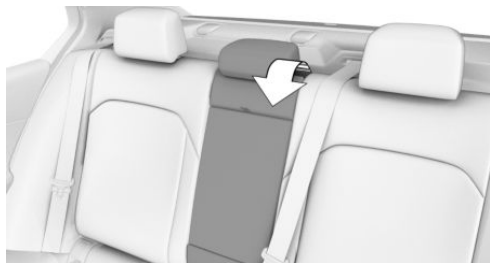
5. Fold the rear seat backrest forward.



## Folding back the rear seat backrest

1. Return the rear seat backrest to the upright seat position and engage it.
2. Release the buckle tongue from the fixture on the rear shelf.
3. Insert the buckle tongue in the belt lock of the center seat belt. Make sure you hear the buckle tongue engage.

## Folding down middle section



Pull lever and fold the center section forward.

## Locking/unlocking the center section

You can lock the center section to prevent it from being folded down from the rear, e.g., when handing your vehicle over to a valet parking service.

1. Fold down the left rear seat backrest with middle section.
2.  To lock: Push the lock forward.  
 To unlock: Push the lock backward.



3. Return the rear seat backrest to the upright seat position and engage it.





# BMW M5 technology

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page [8](#).

## High-performance drive system

### General information

The high-performance engine is complemented by a powerful electric motor. With its spontaneous response characteristics, a very wide usable rotational speed range results. The maximum rotational speed is 7,200 rpm and is electronically controlled. Because of the high engine dynamics, the maximum RPM with the vehicle stationary is reduced.

The power and torque values are as follows:

| BMW M5                                              | Power and torque values  |
|-----------------------------------------------------|--------------------------|
| High-performance engine with 4.4 liter displacement | 577 hp/553 lb ft/750 Nm  |
| Electric motor upstream of transmission             | 194 hp/207 lb ft/280 Nm  |
| Electric motor downstream of transmission           | 194 hp/332 lb-ft/450 Nm  |
| System                                              | 717 hp/738 lb ft/1000 Nm |

### Warm-up

During the engine warm-up phase, the high-performance engine has a somewhat rougher running behavior because of the emission controls.

During the engine warm-up phase, the cold start occurs at an increased idle speed, which leads to increased acoustics of the exhaust system.

Additional information:

Tachometer, refer to page [150](#).

## Compound brake

### General information

The high-performance brake system has perforated compound brake disks.

Due to the specific design, temporary function-related noise may occur after an extended minor load.

The function-related noises have no effect on the performance, operational reliability, and durability of the brake.

### Correct braking

To prevent function-related noises, depress the brakes hard a few times in regular intervals. Ensure that the traffic situation permits the braking.

With moisture on the brake disks, the brake system may be operated dry to prevent noise.

## M carbon ceramic brake

### General information

The high-performance brake system has perforated carbon ceramic brake disks.

Due to properties of the materials used, braking may be associated with louder function-related noises, e.g., in the event of an extended minor brake load or in wet conditions, just before the vehicle comes to a standstill.

The function-related noises have no effect on the performance, operational reliability, and durability of the brake.

The effects of moisture and road salt from using a car wash, dew formation overnight, driving in rain, etc., may render the braking effect comparable to that of a conventional brake system. If necessary, this reduced braking effect can be compensated for by depressing the brake with greater pedal force.

## Correct braking and washing

To prevent function-related noises, press the carbon ceramic brake hard a few times at regular intervals. Ensure that the traffic situation permits the braking.

With moisture on the brake disks, the brake system may be operated dry to prevent noise.

First clean brake disks and calipers with a steam cleaner or high pressure cleaner before washing the vehicle in an automatic car wash or tunnel car wash. This prevents salt crystals, for instance, from causing crusty deposits or buildup to form if the vehicle then remains stationary for a period of time. The cleaning effect of automatic car washes or tunnel car washes is usually not adequate for this in the area around the wheels.

## Drivetrain

With this vehicle, particular value was placed on the direct connection from engine to the drivetrain. Due to the torsionally rigid design of the drivetrain, as is typical in a sports car, the transmission of the torque also gives acoustic feedback.

When there are load changes, this may result in clicking noises. The clicking noises do not

impair the operation or the service life of the components.

The M Steptronic automatic transmission is equipped with adaptation functions that are particularly effective for breaking-in and ensure the best possible long-term function for vehicle operation.

The M xDrive all-wheel-drive system establishes variable torque distribution between the front axle and rear axle. The combination of M xDrive, active M differential, and an Adaptive M chassis in this vehicle ensures a high degree of driving dynamics that is typical of BMW M.

# Things to remember when driving

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Break-in procedures

### General information

Moving parts need to work together smoothly.

The following instructions will help you to achieve a long vehicle life and good efficiency.

During break-in, do not use the Launch Control.

Use all drive types when breaking in the vehicle, i.e., alternate between the combustion engine and electric motor.

### Safety information

#### **WARNING**

Due to new parts and components, safety and driver assistance systems can react with a delay. There is a risk of accident, injury, and property damage. After installing new parts or with a new vehicle, drive conservatively and intervene early if necessary. Observe the break-in procedures of the respective parts and components.

## Combustion engine, transmission, and final drive unit

### Up to 600 miles/1,000 km

Drive at varying engine speeds and vehicle speeds, but do not exceed 5,000 rpm and 106 mph /170 km/h.

For optimal breaking-in of the transmission, it is helpful to drive in Drive mode D at speeds between approx. 12 mph / 20 km/h and approx. 31 mph / 50 km/h while switching between gentle acceleration and coasting.

Avoid full throttle or kickdown under all circumstances.

### From 600 miles/1,000 km to 1,200 miles/2,000 km

Drive at varying engine speeds and vehicle speeds, but do not exceed 6,000 rpm and 130 mph /210 km/h.

Avoid full load in gears 1 to 3.

### At 1,200 miles/2,000 km

Have break-in service preventive maintenance performed.

### Tires

Tire traction is not optimal due to manufacturing circumstances when tires are brand new.

Drive conservatively for the first 200 miles/300 km.

### Brake system

Brake disks and brake pads must be broken in to avoid possible brake noise. Drive cautiously for the first approx. 300 miles/500 km.

For M carbon ceramic brake:

Drive cautiously for the first approx. 600 miles/1000 km.

## Following part replacement

Observe the break-in procedures again if components mentioned above are replaced.

## General driving notes

### Closing the tailgate

#### Safety information

##### **WARNING**

An open tailgate protrudes from the vehicle and can endanger occupants and other road users or damage the vehicle in the event of an accident, braking or evasive maneuvers. In addition, exhaust gas or water may enter the vehicle interior. There is a risk of injury and risk of property damage. Do not drive with the tailgate open.

### Driving with the tailgate open

If the vehicle still needs to be driven with the tailgate open:

- Close all windows.
- Greatly increase the blower output.
- Drive moderately.
- Secure the tailgate, e.g., with a tensioning belt.

### Ground clearance

##### **NOTICE**

If the ground clearance is insufficient, e.g., underground garage entrances, speed bumps or curbs, the ground may come into contact with vehicle parts, e.g., spoiler, and the underbody. There is a risk of property damage. Ensure that there is sufficient

ground clearance available. Adjust your driving style to the respective conditions.

### Driving at high speeds

##### **WARNING**

Damage to vehicle components can negatively impact handling at high speeds. This includes, among other things, tires, underbody and parts for improving aerodynamics. There is a risk of accident, injury, and property damage. Have damage corrected by an authorized service center or another qualified service center or repair shop. Do not drive at high speeds until the damage is corrected.

### Hot exhaust system

##### **WARNING**

High temperatures can occur underneath the body, for instance caused by the exhaust system, while driving. Contact with the exhaust system can cause burns. There is a risk of injury. Do not touch the exhaust system, including the exhaust pipe, when hot.

##### **WARNING**

If combustible materials such as leaves or grass come in contact with hot parts of the exhaust system, these materials can ignite. There is a risk of injury and risk of property damage. Do not remove the heat shields installed and never apply undercoating to them. Make sure that no combustible materials can come in contact with hot vehicle parts while driving, in Neutral or during parking.

## Exhaust gas particulate filter

### Principle

The exhaust gas particulate filter collects soot particles. The soot particles are burned at high temperatures to clean the exhaust gas particulate filter as necessary.

### General information

Depending on vehicle equipment and national-market version, the vehicle is equipped with an exhaust particulate filter. For more information on the exhaust particulate filter, contact an authorized service center or another qualified service center or repair shop.

The following may occur when cleaning for several minutes:

- ▶ The combustion engine may not run as smoothly for a short time.
- ▶ A somewhat higher RPM is necessary to reach usual power development.
- ▶ Fuel consumption may be higher. The higher fuel consumption is included as mean value in the display for the current consumption.
- ▶ The exhaust system is emitting a small amount of smoke, even after the engine is shut off.
- ▶ There is audible noise, e.g., radiator fan is running, even several minutes after the engine is shut off.

Overrun of the radiator fan for several minutes is normal even after short trips.

### Condensation in drive system

Various driving profiles ensure that the drive system functions properly. A driving style with consistently low loads can negatively affect overall functionality, e.g., condensation forming in the drive system. Occasionally running the engine longer with higher loads can counteract this.

If condensation has formed in the drive system, a corresponding Check Control message appears. In this case, on the next drive outside of town, proceed as follows for approx. 30 minutes:

- ▶ Deactivate the speed control system.
- ▶ Select drive program SPORT.
- ▶ If possible, drive at varying speeds.

Additional information:

Drive system, refer to page [136](#).

## Driving through water

### General information

When driving through water, observe the following:

- ▶ Only drive through when the combustion engine is running.
- ▶ To prevent the combustion engine from shutting off, select eCONTROL mode when in M Hybrid mode.
- ▶ Drive through calm water only.
- ▶ Drive through water only up to a maximum height of 9.8 inches/25 cm.
- ▶ Drive through water at a maximum of walking speed, up to 3 mph /5 km/h.

Additional information:

M Hybrid, refer to page [135](#).

### Safety information

#### **NOTICE**

When driving too quickly through deep water, the water can penetrate the engine compartment, the electrical system, or the transmission. There is a risk of property damage. When driving through water, do not exceed the maximum indicated water level and the maximum speed for driving through water.

## Braking safely

### Safety information

#### **WARNING**

Light but constant pressure on the brake pedal can lead to high temperatures, brake wear, and even failure of the brake system. There is a risk of accident, injury, and property damage. Avoid placing excessive load on the brake system. Do not continuously depress the brake pedal and accelerator pedal at the same time. Do not let your foot rest on the brake pedal.

### Antilock Braking System

The vehicle is equipped with an Antilock Braking System as a standard feature.

Perform full braking when appropriate. To achieve the best possible braking assistance, do not reduce the pressure on the brake pedal during full braking. Steering is still responsive. You can still avoid any obstacles with a minimum of steering movement.

Sounds from the hydraulic circuits indicate that the Antilock Braking System is regulating.

### Objects in the travel path of the pedals

#### **WARNING**

Objects in the driver's footwell can limit the pedal travel or block a depressed pedal. There is a risk of accident, injury, and property damage.

- ▷ Stow objects in the vehicle such that they are secured and cannot enter into the driver's footwell.
- ▷ Use (carpet) floor mats that are suitable for the vehicle and can be securely attached to the floor.

- ▷ Do not use loose floor mats, and do not layer multiple floor mats on top of one another.
- ▷ Make sure that there is sufficient clearance for the pedals.
- ▷ Make sure that floor mats are securely reattached after removing them, e.g., when cleaning.

### Pedal feel when driving off

After turning on drive-ready state from idle state, the pedal may feel unusual, e.g., the pedal travel path may feel short or long. After the brake pedal has been fully released, the pedal will feel as usual again.

### Driving in wet conditions

In case of wet roads, exposure to road salt or in heavy rain, gently depress the brake pedal every few kilometers. Ensure that this action does not endanger other road users.

The heat generated while braking dries brake disks and brake pads and protects them against corrosion.

In this way the brake power will be available when you need it.

### Hills

#### General information

Drive long or steep downhill gradients in the gear that requires least braking effort. Otherwise, the brake system may overheat and reduce braking effect.

You can increase the engine braking effect by downshifting, going all the way to first gear, if needed.

## Safety information

### **WARNING**

In Neutral or with drive-ready state switched off, safety functions, for instance engine braking effect, braking assistance and steering assistance, may be restricted or not available. There is a risk of accident, injury, and property damage. Do not attempt to drive in Neutral or with drive-ready state switched off.

## Brake disk corrosion

Corrosion on the brake disks and contamination on the brake pads are increased by the following circumstances:

- ▶ Low mileage.
- ▶ Extended stationary periods.
- ▶ Infrequent use of the brakes.
- ▶ Aggressive, acidic, or alkaline cleaning agents.

Corrosion buildup on the brake disks will cause a pulsating effect on the brakes when braking slowly - generally this cannot be corrected.

## Condensation water under the parked vehicle

Condensation may form in the vehicle air-conditioning system.

Condensation escaping under the vehicle is not a cause for concern.

## Driving on racetracks

### General information

Before and after driving on a racetrack, have the vehicle checked by an authorized service center or another qualified service center or repair shop.

Higher mechanical and thermal loads during racetrack operation lead to increased wear.

Use of the vehicle in M sport or motorsport type competition is an improper use of the vehicle and may affect your warranty coverage. Please consult the New Vehicle Limited Warranty Booklet for further information on warranty matters.

The standard brake pads and the wear indicators are not designed for racetrack operation.

## Safety information

### **WARNING**

The vehicle is not designed for use in M Sport or motorsport-like competition. There is a risk of accident, injury, and property damage. Do not use the vehicle for motorsport or motorsport-like competitions.

## Sport tires

The vehicle manufacturer recommends using special sport tires, e.g., high-performance tires. Sports tires are matched to the special requirements of a sporty driving style. For more information on sport tires, contact an authorized service center or another qualified service center or repair shop.

## M Hybrid

For optimal conditioning for racetrack operation, select the M Hybrid mode 'eControl' and follow the progress on the indicator.

Additional information:

M Hybrid, refer to page [135](#).

## Slowly increasing the load

When driving on a racetrack, increase the duration of the load slowly.



## Roof bars

### General information

Roof racks are available as optional accessories.

### Safety information

#### **WARNING**

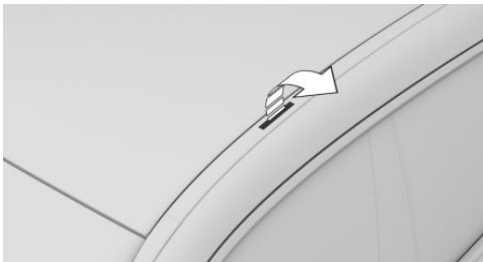
When driving with a roof load, e.g., roof bars, the vehicle's center of gravity is higher. This increases the risk of the vehicle tipping in critical driving situations. There is a risk of accident, injury, and property damage. Drive with roof load only with activated Dynamic Stability Control.

When loading and driving, note the following:

- ▶ Do not exceed the permissible roof load, axle load, and gross vehicle weight.
- ▶ Distribute the roof load uniformly.
- ▶ The roof load should not extend past the loading area.
- ▶ Always place the heaviest pieces on the bottom.
- ▶ Secure the roof luggage firmly, for instance using luggage straps.
- ▶ Do not let objects project into the swiveling range of the tailgate.
- ▶ Drive carefully. Do not drive off or brake suddenly or take corners at speed.

### Roof strip with flaps

The mounting points are located in the roof strip above the doors.



Fold the cover outward.

### Installation

Follow the assembly instructions for the roof bars.

### Loading

Because luggage racks raise the vehicle's center of gravity when loaded, they have a major effect on vehicle handling and steering response.

# Saving fuel

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Reducing fuel consumption

### Principle

The vehicle contains advanced technologies for the reduction of consumption and emission values.

There are some actions you can take to change your fuel consumption and environmental impact:

- ▶ Select drive program "COMFORT".  
Drive system, refer to page 136.
- ▶ Select Drivelogic program D1.
- ▶ Remove unnecessary cargo from the vehicle.
- ▶ Remove add-on parts, e.g., a rear carrier, after use.
- ▶ Close the windows while driving.
- ▶ Check the tire pressure regularly and increase it as necessary.
- ▶ Shut off the engine if the vehicle is to remain stationary for a longer period.
- ▶ Practice anticipatory driving and let the vehicle coast more often.
- ▶ Deactivate functions that are not required, e.g., rear window heating.
- ▶ Have the vehicle serviced regularly.

## Using the hybrid system effectively

### Principle

The vehicle's hybrid system runs automatically. An anticipatory driving style helps to make effective use of the hybrid system. The fuel consumption and energy recovery are optimized.

### Optimizing energy recovery

#### Types of energy recovery

Energy recovery is used to charge the high-voltage battery. Energy recovery is important for the supply of electrical components and thus a prerequisite for fuel economy.

Energy recovery is done in three stages when coasting and braking:

- ▶ Low energy recovery: While coasting to a halt without stepping on the brake.
- ▶ Maximum energy recovery: When pressing the brake pedal with somewhat more force.

#### Optimum energy recovery

Anticipatory driving and decelerating helps with optimizing energy recovery.

As soon as the display shows the maximum energy recovery, only depress the brake pedal harder if required by the situation.

#### Exemplary driving situations for fuel economy

The hybrid system ensures efficient energy management in many driving situations.

- ▶ Stop-and-go traffic:

The combustion engine is switched on or over automatically by the hybrid system.

► Driving with constant speed:

The electric motor relieves the combustion engine periodically by also being switched on.

The hybrid drive adjusts to specific segments of the route.

The function may be restricted if the navigation data is invalid, outdated or not available, for example.

## Optimizing fuel consumption

### Charging the vehicle regularly

Completely charge the vehicle regularly using a suitable charger. This will reduce fuel consumption due to the use of electrical energy.

Longer idle periods can reduce the high-voltage battery's state of charge.

### Using the pre-conditioning regularly

Run advance climate control in the vehicle during charging before driving off. This optimizes the range.

Additional information:

Pre-conditioning, refer to page [293](#).

### Avoiding the use of the combustion engine

Observe the following information to avoid using the combustion engine:

- The hybrid system is set to ELECTRIC using the M HYBRID button.

Additional information:

M HYBRID, refer to page [135](#).

- Follow the indicators for electric driving in the instrument cluster.

Additional information:

Power gauge, refer to page [150](#).

### Using the navigation system regularly

Use the navigation system also for familiar and regularly traveled routes. When the navigation system destination guidance is active, the hybrid system uses the existing navigation data. The upcoming course of the road is analyzed.



# Charging the vehicle

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## General information

The vehicle can be charged using various charging cables at charging stations or domestic socket outlets.

Control and monitoring of the charging process are handled fully automatically. When charging with AC, the charge current level can be adjusted via iDrive.

## Safety information

### **WARNING**

Working with electrical current improperly may result in electric shock or fire due to the high voltages and currents. There is a risk of injury, danger to life, and risk of property damage. Observe the general safety regulations when working with electrical current.

### **WARNING**

Using a faulty or incorrectly designed charger at the charging location may damage the vehicle, overload the power supply at the charging location, and cause a fire. There is a risk of injury, danger to life, and risk of property damage.

The manufacturer of your vehicle recommends that, prior to your first use of a charging location, you have the compatibility of the following components confirmed:

- ▷ Charging cable.
- ▷ Charging station.
- ▷ Domestic socket outlet and connected circuits.

### **WARNING**

Damaged or worn chargers, e.g., worn contacts, can become hot and cause a fire. There is a risk of injury, danger to life, and risk of property damage. Only use chargers that are in good condition.

### **WARNING**

Foreign objects in the charging cable's charging plug or in the vehicle's high-voltage charging socket can cause damage. There is a risk of injury, danger to life, and risk of property damage. Before charging, inspect the charging plug and high-voltage charging socket for damage and foreign objects. Do not start charging if damage or foreign objects are present. If necessary, have the vehicle's high-voltage charging socket inspected by an authorized service center or another qualified service center or repair shop.

### **WARNING**

Mechanical stress may damage the charging cable and adapter connected to the vehicle and the high-voltage charging sockets. There is a risk of injury, danger to life, and risk of property damage. Do not subject the charging cable, adapter, and high-voltage charging

ing sockets to mechanical stress. Route the charging cable to the vehicle freely and avoid stress due to pulling or bending.

### **WARNING**

Simultaneous charging and refueling poses a risk of fire if a sufficient safety distance from easily flammable materials is not maintained. There is a risk of injury, danger to life, and risk of property damage. Do not refuel and charge the vehicle at the same time.

### **WARNING**

Even when it is indicated that the high-voltage battery is discharged, the high-voltage system is always still under high voltage. There is a risk of injury, danger to life, and risk of property damage. Do not touch or change live parts, e.g., orange high-voltage cables, even when the batteries are discharged.

### **WARNING**

Contact with live components can lead to an electric shock. High voltage is applied at the charging connection. There is risk of injury, danger to life, and property damage.

It is recommended that work on the charging connection, for example cleaning, is performed by an authorized service center or another qualified service center or repair shop.

## Charging the high-voltage battery

The high-voltage battery is an energy storage device. The high-voltage battery can be charged via energy recovery when driving or from the power grid.

Charge the vehicle using a suitable charger.

Charge the high-voltage battery regularly to ensure that it functions at optimal levels.

When charging via the power grid, you can choose between the following variants:

- ▷ Domestic socket outlet.
- ▷ Industrial socket.
- ▷ AC charging station.

For optimal use of the energy from the power grid, charging at a charging station, e.g., at a BMW Wallbox, is recommended.

Ensure that the charging station is installed according to the technical requirements of the power grid, e.g. by a qualified electrician.

## Charge current strength

### General information

The charge current strength is indicated in amperes.

There are differences in the maximum permissible charging current depending on the local power grid.

Before charging, set a suitable current limit for the charge current strength.

When charging at charging stations, the permissible charging current is automatically detected and a current limit is set.

When charging at a domestic socket outlet, the current limit for the charge current strength can be configured as necessary.

### Safety information

#### **WARNING**

If the charge current strength has been configured incorrectly, the power grid of the domestic socket outlet may be overloaded, which may cause the outlet to overheat and start a fire. There is a risk of injury, danger to life, and risk of property damage. Adjust



the charge current strength to the power grid prior to charging on domestic socket outlets. With unknown power networks, set on the lowest level.

## Charging on a domestic socket outlet

The permitted charge current strength must be determined, for instance by a qualified electrician, before first charging with your own domestic socket outlet or when charging with third-party domestic socket outlets.

## Current limit

### General information

The current limit for charging with the mode 2 charging cable can be set via iDrive.

When charging at domestic sockets on another power grid, the set charging current again may need to be checked again. The permitted charge current strength must be determined, for instance by a qualified electrician, before charging with a domestic socket outlet.

If the permissible charge current strength is unknown, set the current limit to the lowest level.

### Setting the current limit

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "AC limit"
5. Select the desired setting.

Settings are stored. When changing charging locations, it may be necessary to adjust the charging settings.

## Charging cable

### General information

Use a mode 2 charging cable, mode 3 charging cable or the permanently installed charging cable of a charging station to charge the vehicle.

Depending on national-market version, different charging cables are required and are included in the vehicle's scope of delivery.

### Safety information



#### WARNING

Incompatible charging cables or adapters and unsuitable charging stations may overheat, damage the vehicle, or cause an electric shock or fire. There is a risk of injury, danger to life, and risk of property damage. Only use charging cables, adapters, or charging stations that are recommended for the respective current type, current strength, and voltage.

An authorized service center will be glad to provide information about suitable charging cables and adapters.



#### WARNING

Improper use of the charging cable and adapter can prevent successful charging and lead to damage, e.g., cable fire. There is a risk of injury, danger to life, and risk of property damage. Only use the charging cable and adapter to charge the vehicle, and do not use cables or plug adapters to extend the length of the charging cable.

**⚠ WARNING**

Damaged charging cables may overheat or cause an electric shock or fire. There is a risk of injury, danger to life, and risk of property damage. Use undamaged charging cables only.

**⚠ WARNING**

An incorrectly connected charging cable can lead to damage, for instance cable fire. There is a risk of injury, danger to life, and risk of property damage. Make sure that the charging plug is fully inserted into the high-voltage charging socket.

## AC charging cable

### Flexible Fast Charger, Mode 2 charging cable

The Flexible Fast Charger is a special mode 2 charging cable.

The interchangeable mains plugs of the Flexible Fast Charger allow you to charge flexibly using domestic socket outlets or industrial sockets with protective conductors.

### Multifunction Charger, mode 2 charging cable

The Multifunction Charger is a special mode 2 charging cable.

The interchangeable mains plugs of the Multifunction Charger can be used to charge flexibly at domestic socket outlets or grounded industrial sockets.

### Mode 3 charging cable

The mode 3 charging cable makes it possible to quickly recharge at sockets of designated AC charging stations using a special connector. Charging is performed with alternating cur-

rent at designated AC charging stations. The charging process can be completed faster than at domestic socket outlets.

Depending on vehicle equipment and national-market version, a maximum charge current level of 16 A to 32 A is possible.

The charging cable may be permanently installed at the charging station.

The mode 3 charging cable is also referred to as AC quick charging cable.

## Storage

For the outbound delivery, the charging cable is stowed in the cargo area, for instance under the cargo area floor or in a bag.

Stow charging cable after use in the same place again.

If the charging cable is stowed in a bag, fasten the bag at an open lashing eye in the cargo area.

Roll up the charging cable loosely and make sure that it is not damaged when stowed, e.g., cable becomes bent.

To prevent moisture from accumulating on the charging plug, store the charging cable with the charging plug cover attached.

## Connecting the charging cable

### General information

Before connecting, clean the charging plug and the area between the charging flap and high-voltage charging socket as necessary, e.g., remove snow.

### Functional requirements

- ▷ Selector lever position P is engaged.
- ▷ The drive-ready state is switched off.
- ▷ The vehicle is unlocked.
- ▷ The parking brake is set.



## Charging flap



The charging flap is located in front on the left side of the vehicle.

Keep the high-voltage charging socket clean and free of obstructions.

Keep charging flap closed when the high-voltage charging socket is not in use.

## Connecting a charging cable

When charging at a charging station, follow the instructions on the charging station.

1. To open the charging flap, press on the rear edge, arrow.

The charging flap opens.



2. Connect the mode 2 charging cable to the domestic socket outlet or the mode 3 charging cable to the port at the AC charging station.
3. Place the charging plug on the high-voltage charging socket and push it in until it engages.
4. Hold the charging cable until it is correctly locked.

## Removing the charging cable

### General information

When the vehicle is locked, the charging cable is locked. Unlock the vehicle before removing.

Before unplugging, clean the area between the charging flap and high-voltage charging socket as necessary, e.g., remove snow.

### Disconnecting a charging cable

1. If necessary, unlock the vehicle or the charging cable via iDrive.

The charging process stops when the vehicle is unlocked.

2. Press the release button on the handle, arrow 1, and grasp the charging cable at the gripping areas.



3. Disconnect the charging cable from the high-voltage charging socket, arrow 2.
4. Press the charging flap closed until it engages.
5. Attach the charging plug cover as necessary.
6. Remove the mode 2 charging cable from the domestic socket outlet or the mode 3 charging cable from the socket on the AC charging station as needed.
7. Stow the charging cable.

At a charging station, insert the permanently installed charging cable in the place provided for it.



## Unlocking the charging cable

### Principle

AC charging cable: Where applicable, the charging cable is unlocked when the vehicle is unlocked.

In addition, all charging cables can be unlocked via iDrive or from the My BMW App, as applicable.

### Unlocking charging cable via iDrive

#### Selecting unlock directly

Depending on the display on the control display, the function can be selected directly.



1. "Unlock charging cable now"
2. "Unlock charging cable now"

#### Unlocking via the menu

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "Unlock charging cable"
5. "Unlock charging cable now"
6. "Stop and unlock charging cable"
7. To disconnect the charging cable, press the button on the high-voltage charging socket. You can also disconnect the charging cable when the vehicle is locked.

### Additional settings for unlocking

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "Unlock charging cable"
5. Select the desired setting:
  - ▶ "Unlock AC charging cable at end of charging": The AC charging cables un-

lock automatically as soon as the charging process is finished.

- ▶ "Unlock charging socket flap permanently": The charging flap can be kept unlocked so that it can be opened even when the vehicle is locked.

## NACS adapter

### Principle

Special adapters are needed to charge the vehicle at charging stations with the North American Charging System NACS. These adapters are connected to the charging cable before charging. The North American Charging System NACS is also called J3400.

For charging at NACS charging stations, the NACS adapter is available in two variants depending on the type of current and drive:

- ▶ A NACS adapter for charging with alternating current at AC charging stations, e.g., public Destination Chargers.
- ▶ A NACS adapter for charging with direct current at DC charging stations such as public Superchargers.

Before charging at a NACS charging station, first determine whether it is an AC charging station, e.g., by consulting the charging service provider, the charging station manufacturer, or a qualified electrician.

Make sure to use the correct adapter according to the type of current, voltage, and current strength, e.g., by checking the adapter label.



- ▷ Arrow 1: AC adapter
- ▷ Arrow 2: AC charging socket

The vehicle manufacturer recommends using adapters which are approved by the vehicle manufacturer and therefore recommended for the respective current type, current strength, and voltage.

An authorized service center will be glad to provide information about suitable adapters.

## Safety information

### WARNING

Incompatible charging cables or adapters and unsuitable charging stations may over-heat, damage the vehicle, or cause an electric shock or fire. There is a risk of injury, danger to life, and risk of property damage. Only use charging cables, adapters, or charging stations that are recommended for the respective current type, current strength, and voltage.

An authorized service center will be glad to provide information about suitable charging cables and adapters.

### WARNING

Damaged or worn chargers, e.g., worn contacts, can become hot and cause a fire. There is a risk of injury, danger to life, and risk of property damage. Only use chargers that are in good condition.

### WARNING

Mechanical stress may damage the charging cable and adapter connected to the vehicle and the high-voltage charging sockets. There is a risk of injury, danger to life, and risk of property damage. Do not subject the charging cable, adapter, and high-voltage charging sockets to mechanical stress. Route the charging cable to the vehicle freely and avoid stress due to pulling or bending.

## Using NACS adapters

### General information

Do not disconnect the charging cable from the adapter when charging.

Before connecting and disconnecting, clean the charging plug and the area between the charging flap and high-voltage charging socket as necessary, e.g., remove snow.

### Connecting the NACS adapter and charging cable

1. Place the adapter on the charging cable and push it in until it latches.
2. Open the charging flap.
3. Open the desired charging socket cover as necessary.
4. Connect the charging cable with adapter to the vehicle's high-voltage charging socket.
5. Follow any instructions given at the charging station.

### Disconnecting the NACS adapter and charging cable

1. If necessary, unlock the vehicle and stop the charging process, e.g., at the charging station.
2. Press the upper release button on the adapter and disconnect the charging cable

together with the adapter from the vehicle's high-voltage charging socket.

3. Close the charging socket cover as necessary.
4. Close the charging flap.
5. Press the lower release button on the adapter and pull the adapter off of the charging cable.

In the designated location, plug in the charging cable provided by the charging station.

Stow the adapter in the vehicle.

## Charging process

### Principle

The charging process can be adapted to constraints such as the cost of electricity, available current sources, or a low ambient temperature. The vehicle controls the charging process in such a way that the charging process is completed if possible at the departure time. A departure time must be set for this purpose.

### General information

It may take longer to charge at high/low outside temperatures.

If the mode 2 charging cable is exposed to high temperatures and direct sunlight, this may interrupt the charging process. Charging will resume automatically.

A charging procedure is canceled or not started due to the installation of a Remote Software Upgrade. The charging procedure may not continue automatically after the successful installation.

## Safety information



### NOTICE

The charging flap and charging socket cover may be damaged by strain. There is a risk of property damage. Do not strain the charging flap and charging socket cover, e.g., by dropping the charging cable.

## Avoiding additional fees

Depending on the charging service provider, there may be additional fees to use public charging stations on top of the charging costs.

For example, there may be additional fees in the following situations:

- ▶ If the maximum charging time for the charging station is exceeded.
- ▶ If the vehicle is still parked at the charging station, even shortly after the charging process ends.

For technical reasons, the end of charging calculated when the charging process started may be reached earlier than planned.

Regularly check the remaining charging time when charging.

To avoid additional fees, note the conditions to use the respective charging station and leave the charging station once the charging process is complete.

## Plug & Charge

### Principle

With Plug & Charge, data from multiple charging contracts with different charging providers can be saved to the vehicle. At compatible charging stations, the vehicle automatically sends saved data to the charging station. This makes it easier to charge at public charging stations that are settled by charging contract. Once the charging cable is connected, charging can begin immediately.



## General information

A contract with a charging service provider is usually required for public charging stations. To log in at the charging station, enter your contract information into the charging station, e.g., by using a charging card. With Plug & Charge, there is no need to manually log in at the charging station any more.

Depending on vehicle equipment, this system can also be operated with the My BMW App on a smartphone.

More information on Plug & Charge is provided in the My BMW App or online: [www.bmwusa.com](http://www.bmwusa.com).

## Functional requirements

Contract information is sent to the charging station under the following conditions:

- ▶ The charging contract must contain Plug & Charge and include the respective vehicle.
- ▶ The charging station must support Plug & Charge.
- ▶ Plug & Charge must be available and activated in the vehicle.

## Managing contract data in the vehicle

To manage contract information in the vehicle, proceed as follows:

1. Apps menu
2. "Vehicle"
3. "Charging"
4. "Plug & Charge"
5. Select the desired setting.

Saved charging contracts are listed.

## Activating/deactivating Plug & Charge

To activate/deactivate Plug & Charge, proceed as follows:

1. Apps menu
2. "Vehicle"

3. "Charging"
4. "Plug & Charge"
5. Select the desired setting.

## Using Plug & Charge

1. Before connecting the charging cable, make sure that Plug & Charge is activated in the vehicle and that the desired charging contract is selected.

2. Connect the charging cable.

Charging can be started immediately or will begin automatically. Follow any instructions given at the charging station.

## Starting the charging process

1. Engage selector lever position P. Set the parking brake, if needed.
2. Set the charging mode or time frame.
3. Switch off drive-ready state.
4. Connect the mode 2 charging cable to the domestic socket outlet or the mode 3 charging cable to the port at the AC charging station as needed.
5. Connect the charging cable to the vehicle.

Connecting the charging cable, refer to page [327](#).

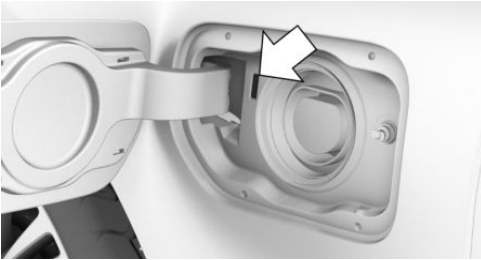
6. Lock vehicle if it is unlocked.

Additional information:

Charging time frame, refer to page [333](#).

## Charging status display

### Indicator light on high-voltage charging socket



The charging status is shown by the indicator light on the high-voltage charging socket.

### Charging status

| Light             | Meaning                                     |
|-------------------|---------------------------------------------|
| White             | Charging cable can be connected or removed. |
| Yellow            | Charging cable is locked.                   |
| Flashing yellow   | Charging process is being prepared.         |
| Blue              | Charging process paused.                    |
| Flashing blue     | Charging process is active.                 |
| Fast flashing red | Fault in the charging process.              |
| Green             | Charging process is complete.               |

When the vehicle is locked, the indicator light goes out after some time.

When the vehicle is unlocked and currently charging, the indicator light flashes blue continuously.

 Press the locking button on the vehicle key in order to check the charging status. The charge level is shown by the indicator light. In some cases the vehicle is locked.

Additional messages about the charging status can be shown on the instrument cluster or on the My BMW App.

### Setting the charging mode

-  Apps menu
- "Vehicle"
- "Charging"
- "Charging mode"
- Select the desired settings:
  - ▶ "Immediately": The charging process starts as soon as the charging cable is connected.
  - ▶ "Time slot": If a departure time is set, a time frame for charging can be set, e.g., to charge using a cheap electricity rate.

### Charging time frame

#### General information

A time frame can be set for the charging process, e.g., to charge with a cheap electricity rate.

The vehicle can also start the charging process before the selected time frame begins or end it after the selected time frame finishes. The starting point of the charging process is adjusted so the vehicle can be as fully charged as possible and, if applicable, its climate adjusted by the departure time.

#### Functional requirement

A departure time is defined.

### Setting a time frame for charging

-  Apps menu
- "Vehicle"
- "Charging"
- "Charging mode"
- "Time slot"
- Select the desired setting.

## Charge target

### Principle

The high-voltage battery can be set to charge to specific target values in percent.

When a lower target value is set, the charging time may be shortened.

### General information

A target value of 80 % is recommended for fast charging and optimal service life of the high-voltage battery.

If necessary, charge the high-voltage battery to 100 % as close as possible to any planned departure.

Target values below 20 % cannot be set.

### Set charge target

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "Charging target"
5. Select the desired setting.

## Stopping the charging process

The charging process can be stopped at any time by removing the charging cable and continued at a later time by connecting the charging cable. For example, so that other people can use the electrical connection in the meantime, or in order to avoid excessive strain on the electrical connection.

Additional information:

Detach the charging cable, refer to page [328](#).

## Continuing the charging process

If the charging process is interrupted, for instance due to a temporary power failure, the charging process will continue automatically after the interruption.

## Ending the charging process

1. Remove the charging cable from the vehicle.  
Detach the charging cable, refer to page [328](#).
2. Stow the charging cable as required.
3. Press the charging flap closed until it engages.
4. Lock vehicle if it is unlocked.

## Goodbye screen on control display

When drive-ready state is switched off, a menu is shown on the control display, in which, among other things, some settings can be applied for charging via iDrive.

## Charging process displays

If standby state is on, the charge state indicator on the instrument cluster shows the high-voltage battery charge.

Information on the charging process is shown on the charging display and, if applicable, on the control display.

| Display                                                                             | Meaning                                                                                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|   | Charging the vehicle with a mode 2 charging cable or mode 3 charging cable.                                        |
|  | Current charging capacity.<br>+ Icon indicates that the maximum charging capacity of the vehicle has been reached. |
|  | Maximum charge current strength or set current limit.                                                              |
|  | Charging cable locked.                                                                                             |
|  | Charging cable unlocked.                                                                                           |

**Display Meaning**

Set charge target.



Departure time set.



One-time departure time set.



Air conditioning activated at departure time.



Flashing: Pre-conditioning is turned on.



Blue icon: Reduced charging power due to low temperature of high-voltage battery.

White icon: Reduced charging power due to high temperature of high-voltage battery.

Additional information:

- ▷ Charge state indicator, refer to page [151](#).
- ▷ Charging screen, refer to page [152](#).

## Departure time

### Principle

For optimum range and air conditioning, the departure time can be set before parking the vehicle.

### General information

With a set departure time, the vehicle is pre-heated or precooled if air conditioning is set. The following settings are possible for departure time:

- ▷ Air conditioning for departure time.
- ▷ Scheduling of up to three regular departure times.
- ▷ Planning a one-time departure time.

### Air conditioning for departure time

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "Departure plan"
5. "Pre-conditioning for departure"

### Setting the departure time

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "Departure plan"
5. Select the desired departure time.
6. Set the time and weekday.

### Activating the departure time

1.  Apps menu
2. "Vehicle"
3. "Charging"
4. "Departure plan"
5. Activate the desired departure time.

The set departure time will be deactivated if the departure time was ignored three times in a row.

## Climate control

The following settings for vehicle air conditioning are possible:

- ▷ Activate pre-conditioning immediately.



The range will be reduced if pre-conditioning is activated without a charging cable connected.

- ▶ Planned air conditioning at the set departure time.

Additional information:

Pre-conditioning, refer to page [293](#).

## Location-based charging settings

### Principle

Various settings can be selected for charging at charging stations.

To simplify the charging process at known charging locations, some of the settings changed can be saved based on location, e.g., charging mode.

### General information

When the function is activated, some settings are automatically saved as soon as the charging process is finished and the charging cable is disconnected.

These settings are saved with the GPS coordinates of the charging location.

Saved settings are enabled as soon as the vehicle approaches a known charging location again.

Before charging, make sure that the settings applied, e.g., charging mode, match the desired charging station.

When the vehicle leaves a known charging location, the settings are automatically set to factory settings.

### Functional requirement

GPS signals must be received in order to use the location-based charging settings.

## Activate/deactivate the function

1. Apps menu
2. "Vehicle"
3. "Charging"
4. "Location-based charging settings"
5. "Save based on location"

If the function is deactivated, no location-based settings are saved and saved settings are not enabled.

Depending on vehicle equipment, the system can also be operated with the My BMW App on a smartphone.

## Display on the control display



If the function is enabled, the icon indicates the location-based settings, which are automatically saved and enabled.

## Saving charging settings for other charging locations

The charging settings currently set in the menu can be saved as default settings for other charging locations.

1. Apps menu
2. "Vehicle"
3. "Charging"
4. "Location-based charging settings"
5. "Apply current settings for new locations"

## Deleting location-based charging settings

1. Apps menu
2. "Vehicle"
3. "Charging"
4. "Location-based charging settings"
5. "Delete all location-based charging settings"



## Discharged high-voltage and vehicle battery

### General information

In addition to the high-voltage battery, the vehicle has a 12V vehicle battery, which is necessary for operation of the onboard electronics.

The air conditioning may be limited if the combustion engine is started when the high-voltage battery is discharged.

With a discharged vehicle battery, no operation of the vehicle is possible.

### Put the vehicle into operation

If the vehicle battery is discharged, the combustion engine can be started using the battery of another vehicle and two jumper cables.

Additional information:

Jump-starting, refer to page 386.

## Service life of high-voltage battery

### General information

The performance of the high-voltage battery, and thus the vehicle's range, decreases over its service life. The time spent driving with the combustion engine, and thus the average fuel consumption, increases. When used correctly, an optimal service life of the high-voltage battery can be achieved.

### Optimization of high-voltage battery service life

When used correctly, an optimal service life of the high-voltage battery can be achieved:

- ▶ If the vehicle is stationary for a long period of time, low states of charge have a positive effect on the usable energy and performance capability of the high-voltage battery.

A charging target of 80 % can be set for this as necessary.

Charge target, refer to page 334.

- ▶ For higher charging targets, charge the high-voltage battery as close as possible to the planned departure time. A time frame can be set for charging.

Charging time frame, refer to page 333.

- ▶ Reduce the load on the high-voltage battery by using an energy-efficient and anticipatory driving style.
- ▶ Avoid direct sunlight at high outside temperatures.

### Long stationary periods, vehicle shutdown

If planning to leave the vehicle stationary for long periods of time, note the following:

- ▶ If the vehicle is to be stationary for more than six months, park the vehicle with a battery charge between 50 % and 80 %. Check the battery charge every six months.
- ▶ If the vehicle is to be stationary for less than six months, park the vehicle with a battery charge between 30 % and 50 %.
- ▶ Do not park the vehicle for longer than 14 days if the electric range is depleted.
- ▶ Do not leave the charging cable connected.

### Preventive maintenance

The high-voltage battery is maintenance-free.

### Status display

Depending on vehicle equipment and national-market version, information on the status of the high-voltage battery can be shown on the control display. The battery condition indicates the maximum available power of the high-voltage battery in relation to the new condition.

1.  Apps menu
2. "Vehicle"



3. "Vehicle status"
4. "Battery condition"

Additional information:

Vehicle status, refer to page [158](#).

## End of high-voltage battery service life

If the vehicle can only be driven to a limited extent at the end of the high-voltage battery's service life, Check Control messages indicate the restricted power and range.

The vehicle must be inspected by an authorized service center or another qualified service center or repair shop. Drive-ready state may no longer turn on if no check is performed.



The system fault indicator light appears on the instrument cluster before it is no longer possible to turn on the drive-ready state.

It is not necessary to interrupt the current trip, which can be ended as planned.

However, it will no longer be possible to continue driving the next time the vehicle is started.

Additional information:

- ▷ Check Control, refer to page [142](#).
- ▷ Indicator lights and warning lights, refer to page [142](#).

# Refueling

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Observe the following when refueling

### General information

Follow the fuel recommendation prior to refueling.

To also ensure all engine functions under unfavorable conditions, for instance steep vehicle inclinations, at least 3 US gal/10 liters fuel should be refueled.

When refueling, hook the fuel pump nozzle completely into the filler pipe. Lifting up the fuel pump nozzle while refueling causes:

- ▶ Premature switching off.
- ▶ Reduced return of the fuel vapors.

The fuel tank is full when the fuel pump nozzle clicks off the first time.

Make sure that the fuel cap is closed properly after refueling, otherwise the emissions warning light may illuminate.

Follow safety regulations posted at the filling station.

Additional information:

Fuel quality, refer to page 370.

## Safety information

### **WARNING**

Simultaneous charging and refueling poses a risk of fire if a sufficient safety distance from easily flammable materials is not maintained. There is a risk of injury, danger to life, and risk of property damage. Do not refuel and charge the vehicle at the same time.

### **NOTICE**

With a range below 30 miles/50 km, the engine may no longer have sufficient fuel. Engine functions are not ensured anymore. There is a risk of property damage. Refuel promptly.

### **NOTICE**

Fuels are toxic and aggressive. Overfilling of the fuel tank can damage the fuel system. Painted surfaces may be damaged by contact with fuel. Escaping fuel can harm the environment. There is a risk of property damage. Avoid overfilling.

## Tank ventilation system

### Principle

The vehicle is equipped with a special fuel tank. The fuel tank is designed for special requirements that arise from hybrid operation of the vehicle, i.e., alternating drive with combustion engine or electric motor.



## General information

Overpressure caused by gasoline vapors may form in the fuel tank. Before opening, ventilate the tank to equalize the pressure.

The tank can be ventilated at a walking speed, e.g., shortly before refueling.

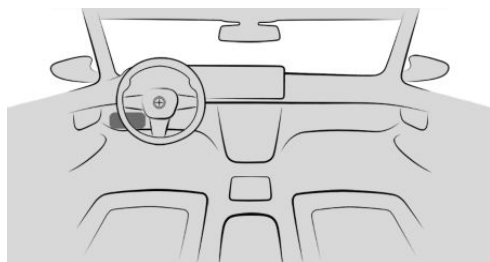
In rare cases, the fuel tank ventilation process may last several minutes, e.g., if the fuel tank level is high. A Check Control message may appear if the fuel tank ventilation button has to be pressed again.

When refueling, we recommend shutting off the combustion engine using the Start/Stop button.

Additional information:

Start/Stop button, refer to page [122](#).

## Overview



The button is located next to the steering wheel.

## Ventilate the tank

-  Press the tank ventilation button next to the steering wheel to start pressure compensation.

The tank ventilation system status is displayed in the instrument cluster. In rare cases, the fuel tank ventilation process may last several minutes, e.g., if the fuel tank level is high. A Check Control message may appear if the fuel tank ventilation button

has to be pressed again. The combustion engine may switch off.

To stop the ventilation, press and hold the fuel tank ventilation button for several seconds. This makes it possible to quickly repeat the process, e.g., if the release mechanism becomes jammed.

When tank ventilating has finished, a message is displayed in the instrument cluster. The fuel filler flap is released for opening.

- Open the fuel filler flap.

If it is not possible to open the fuel filler flap after tank ventilating, press the button again.

If the fuel filler flap cannot be opened even after pressing the button again:

- ▶ If you have sufficient fuel, search for an authorized service center or another qualified service center or repair shop.
- ▶ If you do not have sufficient fuel, unlock the fuel filler flap manually.

Additional information:

Emergency unlocking, refer to page [341](#).

## Fuel filler cap

### General information

If the fuel filler cap is not fitted correctly, the emissions indicator light illuminates on the instrument cluster.

Additional information:

Indicator/warning lights, refer to page [142](#).

### Safety information

#### WARNING

The fuel filler cap's retaining strap can become pinched and crushed when the cap is closed. It will then not be possible to close the fuel filler cap correctly. Fuel or fuel vapors can escape. There is a risk of injury and

risk of property damage. Make sure that the retaining strap does not become pinched or crushed when closing the fuel filler cap.

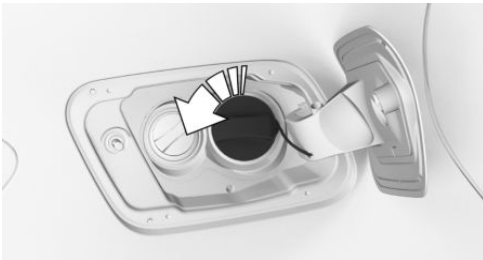
## Opening

Before opening, press the tank ventilation button next to the steering wheel to start pressure compensation.

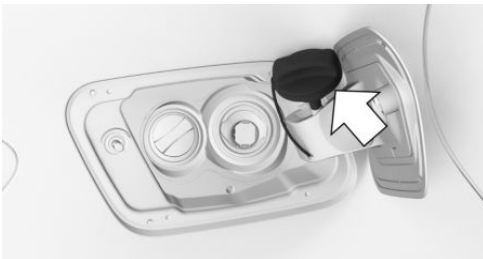
1. To open the fuel filler flap, press on the rear edge, arrow. The fuel filler flap opens.



2. Open the fuel filler cap counterclockwise.



3. Place the fuel filler cap in the bracket on the fuel filler flap.



Additional information:

Tank ventilation system, refer to page [339](#).

## Closing

1. Fit the fuel filler cap and turn it clockwise until it clicks audibly.
2. Press on the fuel filler flap until it engages.

## Emergency unlocking

It may be necessary in certain situations to unlock the fuel filler flap manually, for instance with an electrical malfunction.

The release is located in the cargo area.

1. Remove the cover on the right side trim panel.



2. Pull the green button with the fuel pump icon. This silently releases the fuel filler flap.
3. To open the fuel filler flap, press on the rear edge. The fuel filler flap opens.
4. Carefully open the fuel filler cap. Excess pressure can build up in the fuel tank from gasoline vapor.
5. Refuel the vehicle as usual. The residual pressure in the tank may make refueling difficult, for instance the fuel pump nozzle may shut off frequently.

Have the vehicle checked immediately by an authorized service center or another qualified service center or repair shop.



# Wheels and tires

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Tire pressure

### General information

The tire condition and tire pressure influence the following:

- ▷ The service life of the tires.
- ▷ Driving safety.
- ▷ Driving comfort.
- ▷ Fuel consumption.

### Safety information

#### WARNING

A tire with too little or no tire pressure may heat up significantly and sustain damage. This will have a negative impact on aspects of handling such as steering and braking response. There is a risk of accident, injury, and property damage. Regularly check the tire pressure, and correct it as needed, for instance twice a month and before a long trip.

## Tire inflation pressure specifications

### In the tire pressure table

The tire pressure table contains all tire inflation pressure specifications for given tire sizes at ambient temperature. The tire inflation pres-

sure specifications apply to the tire sizes approved by the vehicle manufacturer for the corresponding vehicle types.

To identify the correct tire pressure, please note the following:

- ▷ Tire sizes of the vehicle.
- ▷ Maximum speed for driving.

### On the control display

The current tire pressure values for the mounted tires can be displayed on the control display.

The current tire pressure value is located on each tire.

## Checking the tire pressure

### General information

The tires heat up while driving. The tire pressure increases with the tire temperature.

Tires have a natural, consistent tire pressure loss.

The displays of inflation devices may under-read by up to 0.1 bar/2 psi.

### Checking via tire inflation pressure specifications in tire pressure table

1. Determine the intended tire pressure levels for the mounted tires.
2. Check the tire pressure in all four tires, e.g., using a pressure gage.
3. Correct the tire pressure if the current tire pressure deviates from the target tire pressure.
4. Make sure that all valve caps are screwed onto the tire valves.

The tire inflation pressure specifications in the tire pressure table only relate to cold tires or

tires at the same temperature as the ambient temperature.

Only check the tire pressure levels when the tires are cold, i.e.:

- ▶ A distance traveled of max. 1.25 miles/2 km has not been exceeded.
- ▶ If the vehicle has not moved again for at least two hours after a trip.

If equipped with an emergency wheel: Check the tire pressure of the emergency wheel in the cargo area regularly and correct if necessary.

Checking using the tire inflation pressure specifications on the control display

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Tire Pressure Monitor"
5. Check whether the current tire inflation pressure levels deviate from the intended tire pressure value.
6. Correct the tire pressure if the current tire pressure deviates from the target tire pressure.

The display of current tire pressure on the control display may be limited when the vehicle is stationary. After a short drive, the tire pressure is updated.

After correcting the tire pressure

If equipped with a Tire Pressure Monitor, the corrected tire pressures are applied automatically. Make sure that the tire settings are correct. With tires that cannot be found in the tire pressure values on the control display, reset the Tire Pressure Monitor (TPM).

If equipped with a flat tire monitor, reinitialize the flat tire monitor.

Tire pressures up to 100 mph /160 km/h

For speeds of up to 100 mph /160 km/h and for optimum driving comfort, follow the tire inflation pressure specifications in the tire pressure table and adjust as necessary.

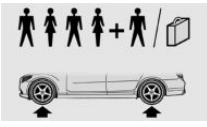


The tire inflation pressure specifications can also be found on the tire pressure label on the driver's door pillar.

Do not exceed a speed of 100 mph /160 km/h.

Tire pressure values up to 100 mph / 160 km/h

M5

| Tire size                                 | Pressure specifications in bar/PSI                                                  |          |
|-------------------------------------------|-------------------------------------------------------------------------------------|----------|
| Specifications in bar/PSI with cold tires |  |          |
| Front: HL 285/40 ZR 20 111 Y XL           | 2.3 / 33                                                                            | -        |
| Rear: HL 295/35 ZR 21 110 Y XL            | -                                                                                   | 2.4 / 35 |

| Tire size                                | Pressure specifications in bar/PSI |          |
|------------------------------------------|------------------------------------|----------|
| Front: HL<br>275/40 R 20<br>109 V XL M+S | 2.4 / 35                           | -        |
| Rear: HL<br>285/40 R 20 111<br>V XL M+S  | -                                  | 2.4 / 35 |

## Tire pressures over 100 mph /160 km/h

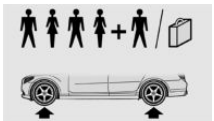
### WARNING

When driving at speeds greater than 100 mph /160 km/h, incorrect tire pressures can negatively affect vehicle handling, e.g., safety or comfort while driving. The tires can become damaged, which may cause an accident. There is a risk of accident, injury, and property damage. To drive at maximum speeds, note the specified tire pressure for driving above 100 mph /160 km/h in the tire inflation pressure table, and adjust as necessary.

## Tire pressure values over 100 mph / 160 km/h

### M5

Without M Driver's Package:

| Tire size                                 | Pressure specifications in bar/PSI                                                  |   |
|-------------------------------------------|-------------------------------------------------------------------------------------|---|
| Specifications in bar/PSI with cold tires |  |   |
| Front: HL<br>285/40 ZR 20<br>111 Y XL     | 2.4 / 35                                                                            | - |

| Tire size                                | Pressure specifications in bar/PSI |          |
|------------------------------------------|------------------------------------|----------|
| Rear: HL<br>295/35 ZR 21<br>110 Y XL     | -                                  | 2.7 / 39 |
| Front: HL<br>275/40 R 20<br>109 V XL M+S | 2.7 / 39                           | -        |
| Rear: HL<br>285/40 R 20 111<br>V XL M+S  | -                                  | 2.8 / 41 |

With M Driver's Package:

| Tire size                                 | Pressure specifications in bar/PSI                                                |          |
|-------------------------------------------|-----------------------------------------------------------------------------------|----------|
| Specifications in bar/PSI with cold tires |  |          |
| Front: HL<br>285/40 ZR 20<br>111 Y XL     | 3.1 / 45                                                                          | -        |
| Rear: HL<br>295/35 ZR 21<br>110 Y XL      | -                                                                                 | 3.4 / 49 |
| Front: HL<br>275/40 R 20<br>109 V XL M+S  | 2.7 / 39                                                                          | -        |
| Rear: HL<br>285/40 R 20 111<br>V XL M+S   | -                                                                                 | 2.8 / 41 |

## Tire marking

### Tire size

245/45 R 18 96 Y

245: Nominal width in mm

45: Tire aspect ratio in %



R: Radial tire code  
18: Rim diameter in inches  
96: Load index  
Y: Speed code letter  
ZR tires: Reinforced radial tire for speeds exceeding 150 mph /240 km/h

Maximum tire load

Maximum tire load is the maximum permissible weight for which the tire is approved. Locate the maximum tire load on the tire sidewall and the Gross Axle Weight Rating – GAWR – on the certification label on the driver door B-pillar. Divide the tire load by 1.1. It must be greater than one-half of the vehicle's Gross Axle Weight Rating – GAWR. Note, front vs. rear GAWR and tire loads, respectively.

Speed letter

| Designation | Maximum speed           |
|-------------|-------------------------|
| Q           | 100 mph / 160 km/h      |
| R           | 106 mph / 170 km/h      |
| S           | 112 mph / 180 km/h      |
| T           | 118 mph / 190 km/h      |
| H           | 131 mph / 210 km/h      |
| V           | 150 mph / 240 km/h      |
| W           | 167 mph / 270 km/h      |
| Y           | 186 mph / 300 km/h      |
| (Y)         | over 186 mph / 300 km/h |

Tire Identification Number

DOT code: DOT xxxx xxx 3825  
xxxx: Manufacturer code for the tire brand  
xxx: Tire size and tire design  
3825: Tire age

Tires with DOT codes meet the guidelines of the U.S. Department of Transportation.

Tire age

Recommendation

Regardless of the tire tread depth, replace tires at least every 6 years.

Production date

The tire's production date is found on the tire sidewall.

| Designation  | Production date   |
|--------------|-------------------|
| DOT ... 3825 | 38th week of 2025 |

Uniform Tire Quality Grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example: Treadwear 200; Traction AA; Temperature A

DOT Quality Grades

Treadwear  
Traction AA A B C  
Temperature A B C  
All passenger car tires must conform to Federal Safety Requirements in addition to these grades.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half, 1 g, times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driv-

ing habits, service practices and differences in road characteristics and climate.

## Traction

The traction grades, from highest to lowest, are AA, A, B, and C.

Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

## Temperature

The temperature grades are A, the highest, B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades Band A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

### WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure. There is a risk of accident, injury and a risk of damage to property.

## M+S

Winter tires, as well as all-season tires with better winter performance than summer tires, are indicated by the letters M+S on the tire sidewall.

## Tire tread depth

### Safety information

#### WARNING

If the tire tread depth is too low, driving safety may be limited in critical situations. There is a risk of accident, injury, and property damage. Follow applicable legal requirements for minimum tread depth.

## Minimum tread depth

Generally speaking, the legal minimum tread depths may differ for summer tires, winter tires, and all-season tires. To ensure optimum handling, e.g., in wet or snowy conditions, it may be useful to change a tire before it reaches the legal minimum tread depth. For more information, contact an authorized service center or another qualified service center or repair shop.

## Wear indicators



The tire manufacturer's wear indicators are distributed around the tire circumference and have a height of at least 0.06 in/1.6 mm.

The wear indicators serve as indicators for the wear of the tire tread.

The locations of the wear indicators are indicated by the letters TWI (tread wear indicator) on the tire sidewall.

## Tire damage

### General information

Check your tires regularly for damage, foreign objects lodged in the tread, and tread wear.

Indications of tire damage or another vehicle malfunction:

- ▶ Unusual vibrations.
- ▶ Unusual tire or running noises.
- ▶ Unusual vehicle handling such as a strong tendency to pull to the left or right.
- ▶ Uneven wear pattern, e.g., increased wear in the area of the tire shoulder.

Damage can be caused by the following situations, for instance:

- ▶ Driving over curbs.
- ▶ Road damage.
- ▶ Tire pressure too low.
- ▶ Vehicle overloading.
- ▶ Incorrect tire storage.

### Safety information

#### **WARNING**

Damaged tires can lose tire pressure, which can lead to loss of vehicle control. There is a risk of accident, injury, and property damage. If tire damage is suspected while driving, immediately reduce speed and stop. Have wheels and tires checked. Drive carefully to an authorized service center or another qualified service center or repair shop. Have the vehicle towed or transported as needed. Do

not repair damaged tires, but have them replaced.

#### **WARNING**

The wheels, tires and chassis components can become damaged when driving over curbs, road damage, or other obstacles. Larger wheels have a smaller tire cross-section. The smaller the tire cross-section, the higher the risk of tire damage. There is a risk of accident, injury, and property damage. If possible, avoid driving over curbs, road damage or other obstacles, or drive over them slowly and carefully.

## Exchanging wheels and tires

### Mounting and wheel balancing

Have the wheel mounted and balanced by an authorized service center or another qualified service center or repair shop.

### Suitable wheels and tires

#### General information

Only certain wheel/tire combinations are suitable, depending on vehicle and equipment. The vehicle manufacturer determines wheel/tire combinations based on the following criteria:

- ▶ Tire size, e.g., tire width, aspect ratio.
- ▶ Wheel size, e.g., rim diameter, offset.

For more information on wheel/tire combinations and special equipment, contact an authorized service center or another qualified service center or repair shop.



## Safety information

### WARNING

Wheels and tires that are not suitable for the vehicle can damage parts of the vehicle. There is a risk of accident, injury, and property damage. The vehicle manufacturer recommends that you use only wheels and tires that have been recommended for the vehicle type.

### WARNING

Steel wheels are not suitable for the vehicle and can impair vehicle handling and system functions, e.g., wheel bolts may come loose on their own and the brake disks may be damaged. There is a risk of accident, injury, and property damage. Do not mount steel wheels.

### WARNING

Wheel and tire combinations that are not suitable for the vehicle can affect vehicle handling and a number of system functions, e.g., the Antilock Braking System or Dynamic Stability Control. There is a risk of accident, injury, and property damage. The manufacturer of the vehicle recommends that you use wheels and tires that have been recommended by the vehicle manufacturer for the vehicle type. Following tire damage, have the original wheel and tire combination re-mounted on the vehicle as soon as possible.

### WARNING

Unsuitable wheel studs such as single-section wheel studs may loosen or come off. The wheel may come loose while driving. There is a risk of accident, injury, and property damage. Use only two-section wheel studs that

are recommended by the manufacturer of the vehicle for the respective wheel type.

## Recommended tire brands



Tire types are developed for each vehicle and optimized specifically for the individual requirements of that vehicle, e.g.:

- ▷ Vehicle handling.
- ▷ Comfort.
- ▷ Noise characteristics.

Specially developed tires are indicated by a star on the tire sidewall. After replacing wheels and tires, the vehicle manufacturer recommends using star-marked tires again. The vehicle manufacturer recommends using tires of the same make and tire tread.

## New tires

Tire traction is not optimal due to manufacturing circumstances when tires are brand new.

Drive conservatively for the first 200 miles/300 km.

## Retreaded tires

### WARNING

Retreaded tires can have different tire casing structures. With advanced age the service life may be limited. There is a risk of accident, injury, and property damage. The manufac-

turer of the vehicle does not recommend the use of retreaded tires.

## Maximum speed

### Safety information

#### **WARNING**

If the maximum permissible speed of your mounted tires is exceeded, the tires may be damaged. There is a risk of accident, injury, and property damage. Do not exceed the maximum permissible speed of the tires.

## Maximum speed of winter tires

If the vehicle's maximum speed is higher than the maximum permissible speed of the winter tires, place a sign indicating the maximum permissible speed in the driver's field of vision. The info label is available from an authorized service center or another qualified service center or repair shop.

## Winter tires



Winter tires are recommended for operating on winter roads.

Winter tires are indicated by the mountain/snowflake icon and the letters M+S on the tire sidewall.

So-called all-season tires with M+S marking but without mountain and snowflake icon have better winter properties than summer tires.

As a rule, all-season tires do not perform the same as winter tires.

## Wheel change between axles

#### **WARNING**

A wheel change between the axles on vehicles with different tire sizes or rim sizes on the front and rear axles can cause damage to the tires and the vehicle. There is a risk of accident, injury, and property damage. Do not rotate the tires between axles on vehicles with different tire or rim sizes on the front and rear axles.

## Storing tires

### Tire pressure

Do not exceed the maximum tire pressure indicated on the tire sidewall.

### Storage

- ▷ Store wheels and tires in a cool, dry and dark place.
- ▷ Always protect tires against all contact with oil, grease, and solvents.
- ▷ Do not leave the tires in plastic bags.
- ▷ Remove dirt from wheels or tires.

## Snow chains

### Safety information

#### **WARNING**

Mounting snow chains on unsuitable tires can cause the snow chains to come into contact with vehicle parts. There is a risk of accident, injury, and property damage. Only fit snow chains on tires recommended by

the vehicle manufacturer for use with snow chains.

### **WARNING**

Insufficiently tight snow chains may damage tires and vehicle components. There is a risk of accident, injury, and property damage. Make sure that the snow chains are always sufficiently tight. Re-tighten as needed according to the snow chain manufacturer's instructions.

### **WARNING**

When driving with snow chains, the snow chains and other vehicle components may be damaged if the vehicle speed is too high. The handling characteristics also change, e.g., altered braking response. There is a risk of accident, injury, and property damage. Drive carefully and do not exceed a maximum speed of 30 mph / 50 km/h.

## Fine-link snow chains

The manufacturer of the vehicle recommends the use of fine-link snow chains. Certain types of fine-link snow chains have been tested by the manufacturer of the vehicle and recommended as road-safe and suitable.

For information on suitable snow chains, contact an authorized service center or another qualified service center or repair shop.

## Use

Use is only permitted in pairs on rear wheels equipped with the tires of the following wheel/tire sizes:

| Tire size     | Wheel size | Rim offset (IS) |
|---------------|------------|-----------------|
| HL 285/40 R20 | 10.5J x 20 | 28              |

Information on the wheel size and rim offset is located on the inside of the wheel.

The list can also include wheel/tire sizes that are only suitable for certain models.

Information on wheels and tires approved for the vehicle can be requested from an authorized service center or another qualified service center or repair shop.

Follow the snow chain manufacturer's instructions.

If vehicle is equipped with Tire Pressure Monitor: When using snow chains, do not reset the Tire Pressure Monitor, otherwise, incorrect values may be displayed.

If vehicle is equipped with flat tire monitor: When using snow chains, do not initialize the flat tire monitor, otherwise, incorrect values may be displayed.

When driving with snow chains, if needed, briefly activate M Dynamic Mode.

## Rear-wheel steering during operation with snow chains

### General information

In order to guarantee free movement of the wheels when operating with snow chains, rear-wheel steering must be turned off when snow chains are mounted.

Rear-wheel steering is switched on again automatically when the permitted maximum speed for snow chains is exceeded: 30 mph / 50 km/h.

The setting for equipped snow chains can only be used below 30 mph / 50 km/h.

### Safety information

### **WARNING**

When rear-wheel steering is switched on and snow chains are mounted, there can be contact between snow chains and the body. There is a risk of accident, injury, and prop-

erty damage. With mounted snow chains, switch off the rear-wheel steering.

## Switching off rear-wheel steering

The rear-wheel steering is switched off by specifying that snow chains are installed.

1.  Apps menu
2. "Vehicle"
3. "Driving settings"
4. "Drivetrain and chassis"
5. "Snow chains"

## Tire Pressure Monitor

### Principle

The Tire Pressure Monitor monitors the tire pressure and issues a warning if the tire pressure has dropped.

### General information

Sensors in the tire valves measure the tire pressure and tire temperature.

Depending on the tire entered or detected, the system automatically compares the specified nominal pressures with the current tire pressures.

If tires are being used that are not specified in the tire inflation pressure specifications on the vehicle such as tires with special approval, the system needs to be actively reset. The system will then take over the current tire pressures as the target pressures.

When operating the system, also note the information found in the Tire inflation pressure chapter.

Additional information:

Tire pressure, refer to page [342](#).

## Safety information

### WARNING

Incorrect entries in the tire settings can lead to incorrect target tire inflation pressure values. In this case, it cannot be guaranteed that the notification of a tire pressure loss will be reliable. There is a risk of injury and risk of property damage. Make sure that the sizes of your mounted tires are displayed correctly and match the information on the tires and the tire inflation pressure specifications on the vehicle.

## Functional requirements

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

- ▷ After each tire or wheel change, the system detects and updates the mounted tires on the control display and displays them after a short trip.  
Enter the information about the mounted tires in the tire settings when the system does not automatically detect the tires.
- ▷ The Tire Pressure Monitor does not activate until after driving for a few minutes:
  - ▷ After a tire or wheel change.
  - ▷ After a reset, when using tires with special approval.
  - ▷ After changing the tire setting.
- ▷ For tires with special approval:
  - ▷ After a tire or wheel change, a reset was performed with the correct tire pressure.
  - ▷ After the tire inflation pressure was adjusted to a new value, a reset was performed.
- ▷ Wheels with air pressure sensor.



## Tire settings

### General information

The information about the mounted tires can be entered in the tire settings if the system does not automatically detect the tires.

The tire sizes of the mounted tires can be gathered from the tire inflation pressure details on the vehicle or directly on the tires.

The tire details do not need to be re-entered when the tire pressure is corrected.

For summer and winter tires, the tire details entered last are stored. After a tire or wheel change, the settings of the tire sets used last can be selected.

### Adjusting the tires

1. Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Tire Pressure Monitor"
5. "Tire settings"
6. "Tire selection"
7. "Manual"
8. "Tire type"
9. Select the tire size for the rear axle.

For tires with special approval:

"Other tires/race track"

10. Select the maximum speed to be driven.
11. "Save tire settings"

The measurement of the current tire inflation pressure is started. The measurement progress is displayed.

## Status display

### Current status

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

1. Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Tire Pressure Monitor"

The current status is displayed.

### Current tire pressure

The current tire pressure is displayed for each tire.

The current tire pressures may change while driving or depending on the outside temperature.

### Current tire temperature

The current tire temperatures are displayed.

The current tire temperatures may change while driving or due to the outside temperature.

## Tire conditions

### General information

Tire and system status are indicated by the color of the wheels and a text message on the control display.

Any existing messages may not be deleted if the nominal pressure is not reached after the tire inflation pressure is corrected.

### All wheels green

- ▶ The system is active and bases warnings on the target pressures.
- ▶ For tires with special approval: The system is active and bases warnings on the tire pressures stored during the last reset.



### One to four yellow wheels

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

### Gray wheels

It may not be possible to identify tire pressure losses.

Possible causes:

- Malfunction.
- During tire pressure measurement, after confirmation of the tire settings.
- For tires with special approval: A reset is performed for the system.

### For tires with special approval: Performing a reset

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Tire Pressure Monitor"
5. Make sure that the tire settings are correct. Tire settings, refer to page 352.
6. Turn on the drive-ready state and do not drive off.
7. "Perform reset"
8. Drive off.

The wheels are shown in gray and the tire pressure is reset.

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

Once the reset is complete, the wheels on the control display are shown in green. A message is displayed.

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

### Messages: For tires without special approval

#### General information

When a low tire pressure is indicated, the Dynamic Stability Control may be turned on.

#### Safety information

#### **WARNING**

A damaged regular tire with low or no tire pressure impacts handling such as steering and braking response. There is a risk of accident, injury, and property damage. Do not continue driving. Repair the flat tire or replace the wheel.

### If a tire pressure measurement is required

#### Message

An icon with a Check Control message appears on the control display.

| Icon                                                                               | Possible cause                                                                                                                                                                                                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Leak detected on the tire.<br>Inflation was not carried out according to specifications, for instance when the tire has not been sufficiently inflated or in the case of a natural steady tire pressure loss. |

#### Measure

Check the tire pressure and correct as needed.

### If the tire pressure is too low

#### Message

 A yellow warning light is illuminated in the instrument cluster.

In addition, an icon with a Check Control message appears on the control display.

| Icon | Possible cause |
|------|----------------|
|------|----------------|



There is a tire pressure loss.

### Measure

1. Reduce the vehicle speed. Do not exceed a speed of 80 mph /130 km/h.
2. At the next opportunity, for instance at a filling station, check the tire pressure in all four tires and correct if necessary.

## If there is a significant tire pressure loss

### Message



A yellow warning light is illuminated in the instrument cluster.

In addition, an icon with the affected tire appears in a Check Control message on the control display.

| Icon | Possible cause |
|------|----------------|
|------|----------------|



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

### Measure

1. Reduce your speed and stop cautiously. Avoid sudden braking and steering maneuvers.
2. Read the description on what to do in case of a flat tire.

## Messages: For tires with special approval

### General information

When a low tire pressure is indicated, the Dynamic Stability Control may be turned on.

## Safety information

### WARNING

A damaged regular tire with low or no tire pressure impacts handling such as steering and braking response. There is a risk of accident, injury, and property damage. Do not continue driving. Repair the flat tire or replace the wheel.

## If a tire pressure measurement is required

### Message

An icon with a Check Control message appears on the control display.

| Icon | Possible cause |
|------|----------------|
|------|----------------|



Inflation was not carried out according to specifications, e.g., the tire has not been sufficiently inflated.

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

The tire pressure has fallen below the level of the last reset.

No reset was performed for the system. The system issues a warning based on the tire pressures stored during the last reset.

### Measure

1. Check the tire pressure and correct as needed.
2. Perform a system reset.

## If the tire pressure is too low

### Message



A yellow warning light is illuminated in the instrument cluster.

In addition, an icon with a Check Control message appears on the control display.

| Icon                                                                             | Possible cause                                                                                                                                                 |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | There is a tire pressure loss.<br>No reset was performed for the system. The system issues a warning based on the tire pressures stored during the last reset. |

Measure

1. Reduce the vehicle speed. Do not exceed a speed of 80 mph /130 km/h.
2. At the next opportunity, for instance at a filling station, check the tire pressure in all four tires and correct if necessary.
3. Perform a system reset.

If there is a significant tire pressure loss

Message

|                                                                                  |                                                                  |
|----------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | A yellow warning light is illuminated in the instrument cluster. |
|----------------------------------------------------------------------------------|------------------------------------------------------------------|

In addition, an icon with the affected tire appears in a Check Control message on the control display.

| Icon                                                                               | Possible cause                                                                                                                                                                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | There is a flat tire or a major tire pressure loss.<br>No reset was performed for the system. The system issues a warning based on the tire pressures stored during the last reset. |

Measure

1. Reduce your speed and stop cautiously. Avoid sudden braking and steering maneuvers.
2. Read the description on what to do in case of a flat tire.

Actions in the event of a flat tire

1. Identify the damaged tire.

Check the tire pressure in all four tires, for instance using the tire pressure display of a flat tire kit.

For tires with special approval: When the tire pressure in all four tires is correct, the Tire Pressure Monitor may not have been reset. In this case, perform the reset.

If no tire damage can be identified, contact an authorized service center or another qualified service center or repair shop.

2. Repair the flat tire, e.g., with a flat tire kit or by changing the wheel.

Use of sealing compound, for instance from the flat tire kit, may damage the wheel electronics. Have the electronics replaced at the next opportunity.

System limits

Temperature

The tire pressure depends on the tire's temperature.

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

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

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

Sudden tire pressure loss

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

Failure performing a reset

For tires with special approval: This system will not function correctly if it has not been reset. For example, a flat tire is being reported despite the tires having the correct pressure.



## Malfunction

### Message



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

### Measure

- ▶ A wheel without air pressure sensor is mounted: Have the wheels checked as needed.
- ▶ Fault caused by systems or devices with the same transmission frequency: The system automatically reactivates after leaving the area of the interference.
- ▶ For tires with special approval: The system was unable to complete the reset. Perform a system reset again.
- ▶ If the Tire Pressure Monitor malfunctions: Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

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

Each tire, including the spare (if provided) should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.) As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your

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

## Flat tire monitor

### Principle

The flat tire monitor detects a tire pressure loss while driving and issues a warning if the tire pressure has dropped.

## General information

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

In the event of a tire pressure loss, the diameter and therefore the rate of rotation of the corresponding wheel changes. The difference will be detected and reported as a flat tire.

The system does not measure the actual pressure in the tires.

## Functional requirements

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

- ▷ After a tire or wheel change, an initialization was carried out at the correct tire pressure.
- ▷ After the tire pressure was adjusted to a new value, an initialization was performed.

## Status display

The current status of the flat tire monitor can be displayed, e.g., whether the flat tire monitor is active.

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "FLAT TIRE MONITOR"

The status is displayed.

## Initialization required

An initialization must be performed in the following situations:

- ▷ After the tire pressure has been adjusted.
- ▷ After a tire or wheel change.

## Performing initialization

When initializing, the set tire pressures serve as reference values in order to detect a flat tire. Initialization is started by confirming the tire pressures.

Do not initialize the system when driving with snow chains.

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "FLAT TIRE MONITOR"
5. Turn on the drive-ready state and do not drive off.
6. "Perform reset"
7. Drive off.

The initialization is completed while driving, which can be interrupted at any time.

The initialization automatically continues when driving continues.

## Messages

### General information

When a flat tire is indicated, the Dynamic Stability Control (DSC) is turned on, if needed.

### Safety information



#### **WARNING**

A damaged regular tire with low or no tire pressure impacts handling such as steering and braking response. There is a risk of accident, injury, and property damage. Do not continue driving. Repair the flat tire or replace the wheel.

### Indication of a flat tire



A yellow warning light is illuminated in the instrument cluster.

In addition, an icon with a Check Control message appears on the control display.

**Icon Possible cause**

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

## Measure

1. Reduce your speed and stop cautiously. Avoid sudden braking and steering maneuvers.
2. Read the description on what to do in case of a flat tire.

## Actions in the event of a flat tire

1. Identify the damaged tire.

To do this, check the tire pressure in all four tires, for instance using the tire pressure display of a flat tire kit.

When the tire pressure in all four tires is correct, the flat tire monitor may not have been initialized. In this case, initialize the system.

If tire damage cannot be identified, contact an authorized service center or another qualified service center or repair shop.
2. Repair the flat tire, e.g., with a flat tire kit or by changing the wheel.

## System limits

The system may be delayed or malfunction in the following situations:

- ▶ A natural, even tire pressure loss in all four tires will not be recognized. Therefore, check the tire pressure regularly.
- ▶ Sudden and serious tire damage caused by external circumstances cannot be recognized in advance.
- ▶ The system has not been initialized.
- ▶ When driving on a snowy or slippery road.
- ▶ Sporty driving style: Slip on traction wheels, high lateral acceleration (drifting).
- ▶ When driving with snow chains.

## Repairing a flat tire

### Safety precautions

- ▶ Park the vehicle on solid and non-slip ground at a safe distance from road traffic.
- ▶ Turn on the hazard warning system.
- ▶ Set the parking brake.
- ▶ Turn the steering wheel until the front wheels are in the straight-ahead position and engage the steering wheel lock.
- ▶ As soon as permitted by the traffic flow, have all vehicle occupants get out and make sure that they remain outside the hazardous area such as behind a guardrail.
- ▶ If necessary, set up the hazard triangle or hazard warning lights at an appropriate distance.

## Tire repair set

### Principle

The tire repair set is used to temporarily seal minor tire damage so that it is possible to continue driving.

### General information

- ▶ The filled in tire sealant closes the damage from the inside when it hardens.
- ▶ Follow the instructions for using the tire repair set, which are provided on the compressor and sealant bottle.
- ▶ The tire repair set may be insufficient if the tire damage measures more than approx. 0.16 in/4 mm.
- ▶ Do not remove foreign objects that have penetrated the tire. Remove foreign objects only when they are visibly protruding from the tire.
- ▶ The compressor can be used to check the tire inflation pressure.

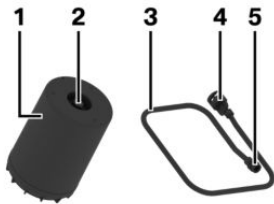
## Overview

### Storage

Depending on vehicle equipment, the tire repair set is stored as follows:

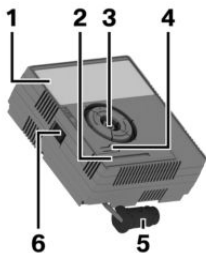
- ▶ In the cargo area under the cargo area floor.
- ▶ In the cargo area on the left or right side.
- ▶ In the cargo area behind a side trim panel.

### Sealant bottle and filler hose



- 1 Sealant bottle
- 2 Sealant bottle outlet
- 3 Filler hose
- 4 Sealant bottle connection
- 5 Wheel valve connection

### Compressor



- 1 Compressor
- 2 Tire pressure display
- 3 Sealant bottle mount
- 4 Pressure reducing valve button

- 5 Connector for socket
- 6 Power switch

### Safety precautions

- ▶ Park the vehicle as far away as possible from passing traffic and on solid ground.
- ▶ Turn on the hazard warning system.
- ▶ Set the parking brake.
- ▶ Turn the steering wheel until the front wheels are in the straight-ahead position and engage the steering wheel lock.
- ▶ As soon as permitted by the traffic flow, have all vehicle occupants get out and make sure that they remain outside the hazardous area such as behind a guardrail.
- ▶ If necessary, set up the hazard triangle or hazard warning lights at an appropriate distance.
- ▶ Remove the warning label for the maximum permissible speed from the sealant bottle and attach it in the visible area in the vehicle interior.

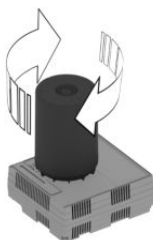


## Preparing the tire repair set

1. Insert the sealant bottle into the mount on the compressor housing.



2. Turn the sealant bottle clockwise by 90° to the stop.

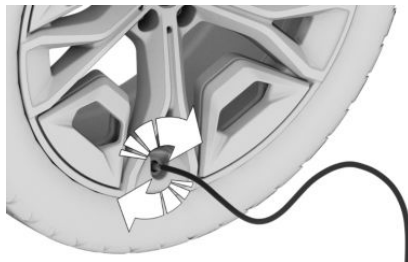


3. Connect the filler hose to the outlet of the sealant bottle and turn clockwise by 90° to the stop.



4. Unscrew the valve cap on the wheel.

5. Screw the filler hose connector clockwise onto the valve.



6. With the compressor switched off, insert the connector into the power socket in the vehicle interior.

## Filling the tire with sealing compound

### Safety information

#### **DANGER**

If the exhaust pipe is blocked or ventilation is insufficient, harmful exhaust gases can penetrate the vehicle. The exhaust gases contain pollutants which are colorless and odorless. In enclosed areas, exhaust gases can also accumulate outside of the vehicle. There is a danger to life. Keep the exhaust pipe free and ensure sufficient ventilation.

#### **NOTICE**

The compressor can overheat during extended operation. There is a risk of property damage. Do not run the compressor for more than 10 minutes.

## Filling the tire with sealing compound

1. With standby state or drive-ready state on, turn on the compressor on the device.



Let the compressor run for max. 10 minutes to fill in the tire sealant and reach a tire pressure of 2.5 bar/36 psi.

While the tire is being filled with tire sealant, the tire pressure can briefly reach approx. 6 bar/87 psi. Do not turn off the compressor in this phase.

2. Turn off the compressor on the device.

## Checking the tire pressure

Read the tire pressure on the tire pressure display of the compressor. The tire pressure must be at least 2.5 bar/36 psi.

## Tire pressure too high

If the tire pressure is too high, reduce the tire pressure with the pressure reducing valve on the compressor.

## Minimum tire pressure is not reached

Do not continue driving unless a minimum tire pressure of 2.5 bar/36 psi is reached. Contact an authorized service center or another qualified service center or repair shop.

## Minimum tire pressure is reached

1. Pull the connector out of the socket in the vehicle interior.
2. Disconnect the filler hose from the sealant bottle and the valve on the wheel.
3. Screw the valve cap onto the valve.
4. Stow the tire repair set in the cargo area.
5. Immediately drive 6 miles/10 km to ensure that the tire sealant is evenly distributed in the tire.

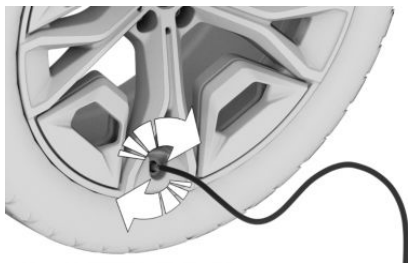
Do not exceed the speed limit of 50 mph /80 km/h.

If possible, do not drive at speeds less than 12 mph /20 km/h.

Tire sealant may spray from the damaged area during the initial wheel rotations.

## Adjusting the tire pressure

1. Stop at a suitable location.
2. Connect the filler hose directly to the compressor, then turn it clockwise 90° in the mount until it engages audibly.
3. Unscrew the valve cap on the wheel.
4. Screw the filler hose connector onto the valve.



5. Insert the connector into the socket in the vehicle interior.
6. Read the tire pressure on the tire pressure display of the compressor.

Do not continue driving unless a minimum tire pressure of 1.3 bar/19 psi is displayed. Contact an authorized service center or another qualified service center or repair shop.

7. Correct the tire pressure to 2.5 bar/36 psi.
  - ▶ Increase tire pressure: With standby or drive-ready state turned on, turn on the compressor and let it run for a maximum of 10 minutes.
  - ▶ Reduce tire pressure: Press the pressure reducing valve button on the compressor.

## Removing and stowing the tire repair set

1. Switch off the compressor.
2. Pull the connector out of the socket in the vehicle interior.
3. Disconnect the filler hose from the compressor and the valve on the wheel.



4. Screw the valve cap onto the valve.
5. Stow the tire repair set together with the filler hose in the cargo area.

## Continuing the trip

Continue driving immediately once finished with the tire repair set.

Do not exceed the speed limit of 50 mph /80 km/h.

Do not exceed a maximum distance traveled of 125 miles/200 km.

Re-initialize the flat tire monitor or reset the Tire Pressure Monitor.

Replace the faulty tire and the sealant bottle from the tire repair set as soon as possible.

Additional information:

- Flat tire monitor, refer to page 356.
- Tire Pressure Monitor, refer to page 351.

## System limits

If the tire cannot be made drivable, contact an authorized service center or another qualified service center or repair shop.

With Tire Pressure Monitor: Using sealant can damage the air pressure sensor. In this case, have the electronics checked and replaced at the next opportunity.

## Changing wheels/tires

### General information

When a flat tire kit is used, an immediate wheel change when there is a tire pressure loss in the event of a breakdown is not always necessary.

If necessary, a suitable wheel change tool, e.g., a jack, is available as an accessory from an authorized service center or another qualified service center or repair shop.

## Safety information

### WARNING

The jack is only provided for short-term lifting of the vehicle for wheel changes. Even if all safety precautions are observed, there is a risk of the raised vehicle falling if the jack tips over. There is a risk of injury and danger to life. When the vehicle is raised with the jack, do not lie under the vehicle and do not switch on the drive-ready state.

### WARNING

Placing supports, e.g., wooden blocks or similar, under the jack may reduce its ability to bear weight because of the limited height. The load-carrying capacity of the wooden blocks may be exceeded and the vehicle may tip over. There is a risk of injury and danger to life. Do not place supports under the jack.

### WARNING

The jack, issued by the vehicle manufacturer, is provided in order to perform a wheel change in the event of a breakdown. The jack is not designed for frequent use, e.g., changing from summer to winter tires. Using the jack frequently may cause it to become jammed or damaged. There is a risk of injury and risk of property damage. Only use the jack to change an emergency or spare wheel in the event of a breakdown.

### WARNING

The jack may slip on soft, uneven, or slippery ground, e.g., snow, ice, tiles, etc. There is a risk of injury. If possible, change the wheel on a flat, solid, slip-resistant surface.

**⚠ WARNING**

The jack is optimized for lifting the vehicle and for the jacking points on the vehicle only. There is a risk of injury. Do not lift any other vehicle or cargo using the jack.

**⚠ WARNING**

When the jack is not inserted into the jacking point provided for this purpose, the vehicle may be damaged or the jack may slip when it is being cranked up. There is a risk of injury and risk of property damage. When cranking up the jack, ensure that it is inserted in the jacking point next to the wheel well.

**⚠ WARNING**

A vehicle that is raised on a jack may fall off of the jack if lateral forces are exerted on it. There is a risk of injury and risk of property damage. While the vehicle is raised, do not exert lateral effort on the vehicle or pull abruptly on the vehicle. Have a stuck wheel removed by an authorized service center or another qualified service center or repair shop.

**⚠ WARNING**

Incorrect handling of the jack can damage the vehicle's underbody and expose high-voltage components. There is a risk of injury, danger to life, and risk of property damage. When cranking up the jack, ensure that it is inserted in the jacking point next to the wheel well. Make sure not to damage any of the underbody paneling.

**⚠ NOTICE**

Using an impact wrench to loosen or tighten the wheel lock bolt can damage the wheel lock bolt. There is a risk of property damage. Only use a lug wrench to loosen and tighten the lug bolt lock.

## Securing the vehicle against rolling away

### General information

The vehicle manufacturer recommends to additionally secure the vehicle against rolling away when changing a wheel.

### On a level surface



Place chocks or other suitable objects in front and behind the wheel that is diagonal to the wheel being changed.



## On a slight downhill gradient



Place wheel chocks or other suitable objects, e.g., rocks, under the wheels of the front axle and rear axle, opposite the rolling direction.

## Lug bolt lock

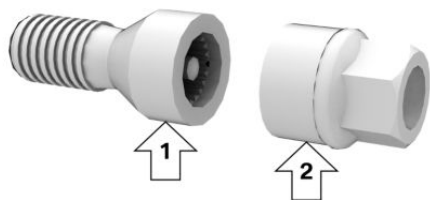
### Principle

The wheel lug bolts have a special coding. The lug bolts can only be released with the adapter which matches the coding.

### Overview

Depending on vehicle equipment, store the lug bolt lock adapter as follows:

- ▶ In the cargo area under the cargo area floor.
- ▶ In the cargo area on the left or right side.
- ▶ In the cargo area behind a side trim panel.



- ▶ Lug lock bolt, arrow 1.
- ▶ Adapter, arrow 2.

## Unscrewing

1. Attach the adapter to the lug lock bolt.
2. Unscrew the lug lock bolt.
3. Remove the adapter after unscrewing the lug bolt.

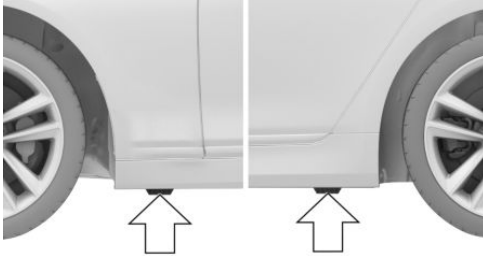
## Screwing on

1. Attach the adapter to the lug lock bolt. Turn the adapter until it fits onto the wheel lock bolt.
2. Screw on the lug lock bolt. The tightening torque is 101 lb ft/140 Nm.
3. Remove the adapter and stow it after screwing on the lug bolt.

## Safety precautions

- ▶ Park the vehicle on solid and non-slip ground at a safe distance from road traffic.
- ▶ Turn on the hazard warning system.
- ▶ Set the parking brake.
- ▶ Turn the steering wheel until the front wheels are in the straight-ahead position and engage the steering wheel lock.
- ▶ Engage a gear or move the selector lever to position P.
- ▶ As soon as permitted by the traffic flow, have all vehicle occupants get out and make sure that they remain outside the hazardous area such as behind a guardrail.
- ▶ If necessary, set up the hazard triangle or hazard warning lights at an appropriate distance.
- ▶ Depending on vehicle equipment, remove the wheel change set and, if necessary, the emergency wheel from the vehicle.
- ▶ Secure the vehicle additionally against rolling away.
- ▶ Loosen the lug bolts a half turn.

## Jacking points



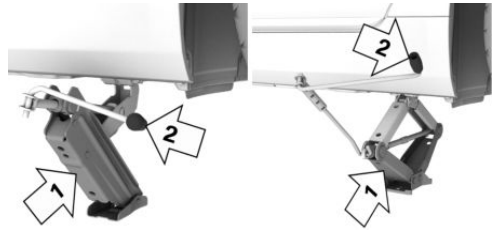
The jacking points are located at the indicated positions.

## Jacking up the vehicle

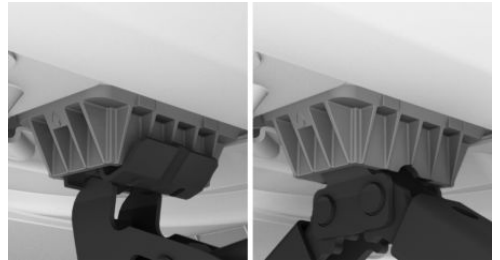
### **WARNING**

Hands and fingers can be jammed when using the jack. There is a risk of injury. Comply with the described hand position and do not change this position while using the jack.

1. Hold the jack with one hand, arrows 1. With the other hand, grip the jack crank handle or the lever, arrows 2.



2. Insert the jack into the rectangular recess of the jacking point closest to the wheel to be changed.



3. Extend the jack by turning the jack crank handle or lever clockwise.



4. Take your hand away from the jack as soon as the jack is under load and continue turning the jack crank handle or lever with one hand.



5. Make sure that the car jack foot extends vertically and is at a right angle beneath the jacking point.



6. Crank the vehicle up until the entire jack surface is on the ground and the corresponding wheel is lifted max. 1.2 inches/3 cm above the ground.

## Mounting a wheel

### **WARNING**

Unsuitable wheel studs such as single-section wheel studs may loosen or come off. The wheel may come loose while driving. There is a risk of accident, injury, and property damage. Use only two-section wheel studs that are recommended by the manufacturer of the vehicle for the respective wheel type.

Mount one emergency wheel only, as required.

1. Unscrew the lug bolts.
2. Remove the wheel.
3. Put the new wheel or emergency wheel on and screw in at least two lug bolts in a crosswise pattern until hand-tight.

When non-original light-alloy wheels of the vehicle manufacturer are mounted, the accompanying lug bolts may have to be used as well.

4. Hand-tighten the remaining lug bolts and tighten all lug bolts well in a crosswise pattern.

5. Turn the jack crank handle counterclockwise to retract the jack and lower the vehicle.
6. Remove the jack and stow it securely.

## After the wheel change

1. Tighten the lug bolts crosswise. The tightening torque is 101 lb ft/140 Nm.
2. Stow the faulty wheel in the cargo area, if necessary.
3. Check tire pressure at the next opportunity and correct as needed.
4. Re-initialize the flat tire monitor or reset the Tire Pressure Monitor.
5. Check to make sure the lug bolts are tight with a calibrated torque wrench.
6. Drive to the nearest authorized service center or another qualified service center or repair shop, then have the damaged tire replaced.

# Engine compartment

## Vehicle features and options

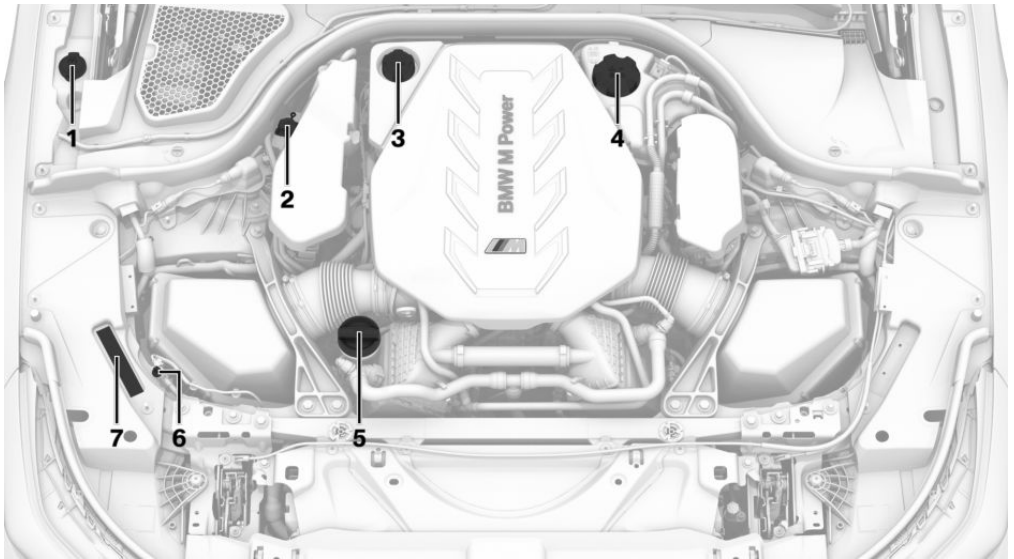
This chapter describes model-specific equipment, systems, and functions that are currently

available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Overview



- |   |                                          |   |                                          |
|---|------------------------------------------|---|------------------------------------------|
| 1 | Filler neck for washer fluid             | 5 | Oil filler neck                          |
| 2 | Jump-starting, positive battery terminal | 6 | Jump-starting, negative battery terminal |
| 3 | Coolant, auxiliary cooling               | 7 | Vehicle identification number            |
| 4 | Engine coolant                           |   |                                          |



## Hood

### Safety information

#### **WARNING**

Improperly executed work in the engine compartment can damage components and lead to a safety hazard. There is a risk of accident, injury, and property damage. The vehicle manufacturer recommends having work in the engine compartment performed by an authorized service center or another qualified service center or repair shop.

#### **WARNING**

The engine compartment accommodates moving components. Certain components in the engine compartment can also move with the vehicle switched off, for instance the radiator fan. There is a risk of injury. Do not reach into the area of moving parts. Keep articles of clothing and hair away from moving parts.

#### **WARNING**

There are protruding parts, for instance locking hooks, on the inside of the hood. There is a risk of injury. If the hood is open, pay attention to protruding parts and keep clear of these areas.

#### **WARNING**

An incorrectly locked hood can open while driving and restrict visibility. There is a risk of accident, injury, and property damage. Stop immediately and correctly close the hood.

#### **WARNING**

Body parts can be jammed when opening and closing the hood. There is a risk of injury. Make sure that the travel path of the hood is clear while opening and closing.

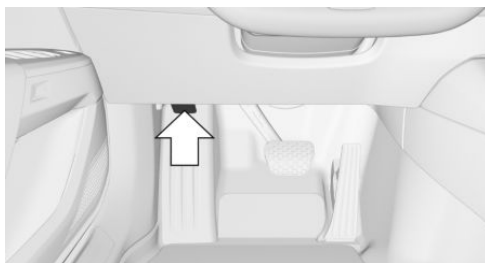
#### **NOTICE**

Folded-out wipers can be jammed when the hood is opened. There is a risk of property damage. Make sure that the wipers with the wiper blades mounted are folded down onto the windshield before opening the hood.

#### **NOTICE**

When closed, the hood must engage fully. Pressing again can damage the hood. There is a risk of property damage. Open the hood again and then close it energetically. Avoid pressing again.

### Opening hood



The unlock lever for the hood is located in the driver's footwell.

1. Pull the lever, arrow 1.  
Hood is unlocked.

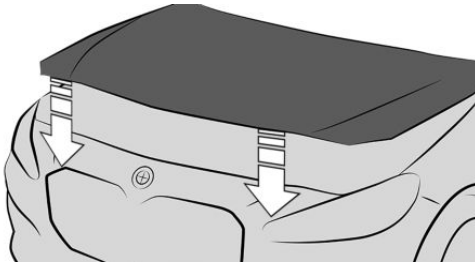


An acoustic signal and a notice in the instrument cluster indicate that the hood is open.



2. Release the lever and pull it again, arrow 2. Hood can be opened.
3. Be careful of protruding parts on the hood.

### Closing the hood



Energetically close the hood from approx. 20 in/50 cm.

The hood must engage on both sides.

# Operating fluids

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Fuel recommendation

### General information

Depending on the region, many filling stations sell fuel that has been customized to winter or summer conditions. Fuel that is available in winter, for instance helps make a cold start easier.

### Gasoline

#### General information

For the best fuel efficiency, the gasoline should be sulfur-free or very low in sulfur content.

Fuels that are marked on the gas pump as containing metal must not be used.

Fuels with a maximum ethanol content of 15 %, i.e., E10 or E15, may be used for refueling.

The power and consumption specifications refer to operating with RON 98 E10 fuel.



Knocking noises, strange sounds, and driving issues may occur when using fuel with an ethanol content of 10 % to max. 15 %. These have no effect on the engine service life.

### Safety information

#### **Caution**

The use of poor-quality fuels may result in harmful engine deposits or damage. Additionally, problems relating to drivability, starting and stalling, especially under certain environmental conditions such as high ambient temperature and high altitude, may occur.

If drivability problems are encountered, we recommend switching to a high quality gasoline brand and a higher octane grade — AKI number — for a few tank fills. To avoid harmful engine deposits, it is highly recommended to purchase gasoline from Top Tier retailers.

Failure to comply with these recommendations may result in the need for additional maintenance.

#### **WARNING**

Even small quantities of the wrong fuel or wrong fuel additives can damage the fuel system and engine. Furthermore, the catalytic converter can be permanently damaged. There is a risk of injury and risk of property

damage. Do not refuel or add the following in the case of gasoline engines:

- ▷ Leaded gasoline.
- ▷ Metallic additives, for instance manganese or iron.

Do not turn on standby after refueling with the wrong fuel. Contact an authorized service center or another qualified service center or repair shop.

### **NOTICE**

87 AKI fuel or lower can cause the engine to malfunction or become damaged. There is a risk of property damage. Do not refuel with 87 AKI fuel or lower.

### **NOTICE**

Incorrect fuels can damage the fuel system and the engine. There is a risk of property damage. Do not use fuels with a higher ethanol content than recommended. Do not refuel with fuels containing methanol, e.g. M5 to M100.

## Recommended gas quality

93 AKI.

## Minimum fuel grade

91 AKI.

Using fuel with this minimum AKI rating may result in driving issues and strange sounds. Knocking noises may occur, especially when starting the engine at high temperatures. This has no effect on engine service life.

**BMW M recommends** 

## Engine oil

### General information

The engine oil consumption and engine oil properties depend on the driving style and operating conditions.

Therefore, regularly check the engine oil level after refueling by taking a detailed measurement.

The engine oil consumption can increase in the following situations, for instance:

- ▷ Sporty driving style.
- ▷ Break-in of the engine.
- ▷ Idle operation of the engine.
- ▷ With use of engine oil types that are not recommended.

Different Check Control messages are shown on the control display depending on the engine oil level and engine oil properties.

The vehicle manufacturer recommends having the engine oil changed by an authorized service center or another qualified service center or repair shop. The suitable viscosity grade is indicated on a sign in the engine compartment.

## Safety information

### **NOTICE**

An engine oil level that is too low causes engine damage. There is a risk of property damage. Immediately add engine oil.

**NOTICE**

Too much engine oil can damage the engine or the catalytic converter. There is a risk of property damage. Do not add too much engine oil. If there is excess engine oil, have the engine oil level corrected by an authorized service center or another qualified service center or repair shop.

**NOTICE**

Engine oil that is not changed in timely fashion can cause increased engine wear and thus engine damage. There is a risk of damage to property. It is recommended that you do not exceed the service intervals indicated in the vehicle.

## Electronic oil measurement

### General information

The electronic oil measurement has two measuring principles:

- ▷ Monitoring.
- ▷ Detailed measurement.

When making frequent short-distance trips or using a sporty driving style, for instance when cornering aggressively, regularly perform a detailed measurement.

### Monitoring

#### Principle

The engine oil level is monitored electronically while driving and can be shown on the control display.

If the engine oil level is outside its permissible operating range, a Check Control message is displayed.

### Functional requirements

A current measured value is available after approx. 30 minutes of normal driving with the combustion engine running.

### Displaying the engine oil level

1. Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Engine oil level"

The engine oil level is displayed.

### System limits

When making frequent short-distance trips or using a sporty driving style, it may not be possible to calculate a measured value. In this case, the measured value for the last, sufficiently long trip is displayed.

## Detailed measurement

### Principle

The engine oil level is checked when the vehicle is stationary and displayed via a scale.

If the engine oil level is outside its permissible operating range, a Check Control message is displayed.

### General information

During the measurement, the idle speed is increased somewhat.

### Functional requirements

- ▷ Vehicle is parked in a horizontal position.
- ▷ Drive-ready state is turned on by pressing the Start/Stop button.
- ▷ The combustion engine is at operating temperature.
- ▷ Selector lever in selector lever position N or P and accelerator pedal not depressed.

## Performing a detailed measurement

1.  Apps menu
2. "Vehicle"
3. "Vehicle status"
4. "Engine oil level"
5. "Oil level measurement"
6. "Start measurement"

The engine oil level is checked and displayed via a scale.

## Adding engine oil

### General information

Only add engine oil when the message is displayed in the instrument cluster. The top-up quantity is indicated in the message shown on the control display.

Only add suitable types of engine oil.

Safely park the vehicle and switch off drive-ready state before adding engine oil.

Take care not to add too much engine oil.

### Safety information

#### **WARNING**

Operating fluids, e.g., oil, grease, coolant, fuel, may contain harmful ingredients. There is a risk of injury and danger to life. Follow the instructions on the containers. Do not allow operating fluids to come into contact with your clothing, skin, or eyes. Do not fill operating fluids into different bottles. Store operating fluids out of reach of children.

#### **NOTICE**

An engine oil level that is too low causes engine damage. There is a risk of property damage. Immediately add engine oil.

#### **NOTICE**

Too much engine oil can damage the engine or the catalytic converter. There is a risk of property damage. Do not add too much engine oil. If there is excess engine oil, have the engine oil level corrected by an authorized service center or another qualified service center or repair shop.

### Overview

The oil filler neck is located in the engine compartment.

Additional information:

For an overview, refer to page [367](#).

### Adding engine oil

1. Opening the hood.  
Opening, refer to page [368](#).
2. Open the lid counterclockwise.



3. Add engine oil.
4. Close the lid.

### Engine oil types to add

#### General information

The engine oil grade is critical for the service life of the engine.

Only add with the types of engine oil which are listed.

## Safety information

### NOTICE

Oil additives can damage the engine. There is a risk of property damage. Do not use oil additives.

### NOTICE

Incorrect engine oil can cause malfunctions in the engine or damage it. There is a risk of property damage. When selecting an engine oil, make sure that the engine oil has the correct oil specification.

## Suitable engine oil types

When topping up engine oil, the following oil specification applies:

### Gasoline engine

BMW Longlife-01 FE.

## Alternative engine oil types

If an engine oil suitable for continuous use is not available, up to 1 US quart/liter of an engine oil with the following oil rating can be added:

### Oil specification

API SL.

API SM.

API SN.

## Viscosity grades

When selecting an engine oil, make sure that the engine oil has a suitable viscosity grade. The suitable viscosity grade is indicated on a sign in the engine compartment.

More information about suitable oil specifications and engine oil viscosity grades can be

requested from an authorized service center or another qualified service center or repair shop.

**BMW recommends  
Original BMW Engine Oil.**

## Coolant

### General information

Coolant consists of water and coolant additive.

Not all commercially available coolant additives are suitable for the vehicle. The vehicle manufacturer recommends using coolant with the BMW LC-18 specification. Do not mix coolant additives of different colors. Use a 50:50 mixing ratio of water to coolant additive. Information on suitable coolant additives can be provided by an authorized service center or another qualified service center or repair shop.

## Safety information

### WARNING

With the engine hot and the cooling system open, coolant can escape and lead to scalding. There is a risk of injury. Only open the cooling system with the engine cooled down.

### WARNING

Additives are harmful to health. Using the wrong additives can damage the engine. There is a risk of injury and risk of property damage. Do not allow additives to come into

contact with skin, eyes or articles of clothing.  
Use suitable additives only.

### **NOTICE**

Too much water reduces the coolant's frost protection and corrosion protection. There is a risk of property damage. Use a 50:50 mixing ratio of water to coolant additive.

## Coolant level

### General information

There are two coolant reservoirs in the engine compartment. Check and add the coolant levels on a regular basis.

The coolant reservoir may be overfilled with coolant when the vehicle is delivered from the factory or following maintenance measures. The specified coolant level is achieved with longer operating periods.

The nominal coolant level is indicated by the maximum mark in the filler neck of the coolant reservoir.

Additional information:

For an overview, refer to page [367](#).

### Checking the coolant level

1. Let the engine cool down.
2. Turn off the climate control system.  
Climate control, refer to page [283](#).
3. Opening the hood.  
Opening, refer to page [368](#).
4. Turn the lid of the coolant reservoir slightly counterclockwise to allow any excess pressure to dissipate, then open it.
5. Open the coolant reservoir lid.
6. The coolant level is correct when it is just below the max. level mark on the filler neck.

This can be found on the filler neck or on the outside of transparent coolant tanks.

7. Close the coolant reservoir cap.

## Adding coolant

### Safety information

### **NOTICE**

When refilling the coolant, spilling coolant on the engine can cause long-term damage to components of the injection system, and thus to the engine. There is a risk of property damage. Pour in coolant slowly and carefully. When refilling, use a suitable bottle with filling aid. Do not overfill coolant. Clean any spilled coolant immediately.

1. Let the engine cool down.
2. Turn off the climate control system.  
Climate control, refer to page [283](#).
3. Opening the hood.  
Opening, refer to page [368](#).
4. Turn the lid of the coolant reservoir slightly counterclockwise to allow any excess pressure to dissipate, then open it.
5. Open the coolant reservoir lid.
6. If necessary, slowly add coolant up to the specified fill level. Be careful not to spill coolant.
7. Close the coolant reservoir cap.

## Disposal



Comply with the relevant environmental protection regulations when disposing of coolant and coolant additives.



## Washer fluid

### General information

All spray nozzles are supplied from one tank.

Use a mixture of tap water and windshield washer concentrate. If desired, a windshield washer concentrate containing antifreeze can be used.

Recommended minimum fill quantity: 0.5 US gal/2 liters.

### Safety information

#### WARNING

Some types of antifreeze can contain harmful substances and are flammable. There is a risk of injury and risk of property damage. Follow the instructions on the containers. Keep antifreeze away from ignition sources. Do not fill operating fluids into different bottles. Store operating fluids out of reach of children.

United States: The washer fluid mixture ratio is regulated by the U.S. EPA and many individual states; do not exceed the allowable washer fluid dilution ratio limits that apply. Follow the usage instructions on the washer fluid container.

Use of BMW's Windshield Washer Concentrate or the equivalent is recommended.

#### WARNING

Washer fluid can ignite and catch fire on contact with hot engine parts. There is a risk of injury and risk of property damage. Only add washer fluid when the engine is cooled down. Next, fully close the lid of the washer fluid reservoir.

#### NOTICE

Silicon-based additives in the washer fluid, which are used to repel water on window glass, can cause damage to the car wash. There is a risk of property damage. Do not add silicon-containing additives to the washer fluid.

#### NOTICE

Mixing different windshield washer fluid concentrates or antifreeze can damage the washer system. There is a risk of property damage. Do not mix different windshield washer fluid concentrates or antifreeze. Follow the information and mixture ratios provided on the containers.

### Overview



The washer fluid reservoir is located in the engine compartment.

### Malfunction

The use of undiluted windshield washer fluid concentrate or alcohol-based antifreeze can lead to incorrect readings at temperatures below +5°F/-15°C.



# Preventive maintenance

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page [8](#).

## Maintenance system

### Principle

The maintenance system provides service notifications and thereby provides support in maintaining road safety and the operational reliability of the vehicle.

### General information

In some cases, scopes and intervals of the maintenance system may vary according to the country version. Replacement work, spare parts, fuels and lubricants, and wear materials are calculated separately. Further information is available from an authorized service center or another qualified service center or repair shop.

### Safety information

#### **WARNING**

Improperly executed work, in particular maintenance and repair on the high-voltage system can lead to electric shock or fire. There is risk of injury, danger to life, and property damage.

It is recommended that the work on the vehicle, in particular maintenance and repair, is performed by an authorized service center or another qualified service center or repair shop.

## Condition Based Service

### Principle

Condition Based Service determines the maintenance recommendation using sensors and special algorithms that take into account the operating conditions of the vehicle.

The maintenance measures are determined taking into account the individual usage profile of the vehicle.

### General information

Service notifications can be displayed on the control display.

Additional information:

Service notifications, refer to page [159](#).

### Service data in the vehicle key

Information on the service notifications is continuously stored in the vehicle key. The service center can read this data out and suggest a maintenance scope for the vehicle.

### Stationary periods

Stationary periods during which the vehicle battery was disconnected are taken into account.

Have any time-dependent maintenance measures, e.g., replacing operating fluids, performed by an authorized service center or another qualified service center or repair shop.

# Maintenance Booklet for US Models

Please consult your Maintenance Booklet for additional information on the performance of service and maintenance work.

The manufacturer of your vehicle recommends that maintenance and repair be performed by an authorized service center or another qualified service center or repair shop. Records of regular maintenance and repair work should be retained.

## Diagnostic socket

### General information

Disconnect devices from the diagnostic socket before locking the vehicle or starting a Remote Software Upgrade.

Additional information:

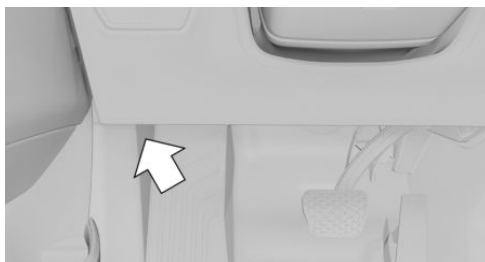
Indicator/warning lights, refer to page 142.

### Safety information

#### NOTICE

The diagnostic socket is an intricate component intended to be used in conjunction with specialized equipment to check the vehicle's primary emissions system. Improper use of the diagnostic socket, or contact with the diagnostic socket for other than its intended purpose, can cause vehicle malfunctions and creates risks of personal and property damage. Given the foregoing, it is strongly recommended that access to the diagnostic socket is limited to an authorized service center or another qualified service center or repair shop or other persons that have the specialized training and equipment for purposes of properly utilizing the diagnostic socket.

## Overview



On the driver's side, there is a diagnostic socket for reading out vehicle data.

## Exhaust emissions



- ▶ The warning light illuminates:  
The exhaust gas quality is declining, e.g., because the fuel filler cap is fitted incorrectly. Have the vehicle checked as soon as possible.
- ▶ The warning light flashes under certain circumstances:  
This indicates that there is excessive misfiring in the engine.  
Reduce the vehicle speed and have the system checked immediately by an authorized service center or another qualified service center or repair shop. Otherwise, severe engine misfires will very quickly cause serious damage to emissions-related components, especially the catalytic converter.  
Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## Taking the vehicle out of service

When the vehicle is shut down for longer than three months, special measures must be taken. For more information, contact an

authorized service center or another qualified service center or repair shop.

Additional information:

High-voltage battery service life, refer to page [337](#).

# Replacing components

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Onboard vehicle tool kit

The onboard toolkit is located in a bag on a free lashing eye in the cargo area.

After use, secure the bag with the onboard vehicle tool kit on a lashing eye again.

## Wiper blades

### Safety information

#### NOTICE

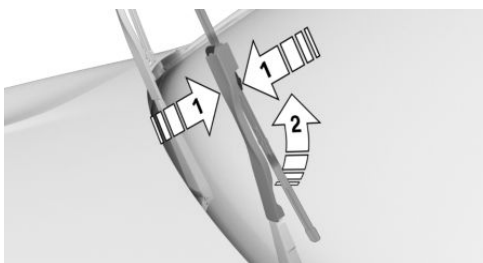
The window glass may be damaged if the wiper is set onto it without a wiper blade. There is a risk of property damage. Hold the wiper firmly when changing the wiper blade. Do not fold in or switch on the wiper without a wiper blade installed.

#### NOTICE

Folded-out wipers can be jammed when the hood is opened. There is a risk of property damage. Make sure that the wipers with the wiper blades mounted are folded down onto the windshield before opening the hood.

## Replacing the wiper blades

1. To change the wiper blades, bring wipers into fold-out position.  
Fold-out position of the wipers, refer to page 171.
2. Fold out the wiper arm and hold it firmly.
3. Squeeze the retaining spring, arrows 1, and fold up the wiper blade, arrow 2.



4. Remove the wiper blade forward from the detent.
5. Insert the new wiper blade in reverse order of removal until it locks in place.
6. Fold in the wipers.

## Bulbs and lights

### General information

Bulbs and lights make an essential contribution to driving safety.

All headlights and lights are designed using LED technology at least.

In the event that they are no longer operating properly, have the headlights and lights checked by an authorized service center or another qualified service center or repair shop.

## Safety information

### **WARNING**

Intense brightness can irritate or damage the retina of the eye. There is a risk of injury. Do not look directly into the headlights or other light sources. Do not remove the LED covers.

## Headlight glass

The inside of the headlight glass can fog up in cool or humid weather. When driving with the lights switched on, the condensation evaporates after a short time. The headlight glass does not need to be changed.

If, despite driving with the headlights switched on, moisture such as water droplets increasingly forms in the light, have the headlights checked.

## Vehicle battery

### General information

The vehicle battery is maintenance-free.

If the vehicle battery is not operational, it is recommended to have any corresponding work, for instance, replacing the vehicle battery, performed by an authorized service center or another qualified service center or repair shop.

More information on the vehicle battery can be requested from an authorized service center or another qualified service center or repair shop.

## Safety information

### **WARNING**

Contact with live components can lead to an electric shock. There is a risk of injury, danger to life, and risk of property damage. Do not touch any components that are under voltage.

### **WARNING**

Vehicle batteries that are not recommended can damage vehicle systems and impair vehicle functions. There is a risk of accident, injury, and property damage. Only use vehicle batteries recommended by the vehicle manufacturer. For information on suitable vehicle batteries, contact an authorized service center or another qualified service center or repair shop.

## Registering the vehicle battery in the vehicle

The vehicle manufacturer recommends having an authorized service center or another qualified service center or repair shop register the vehicle battery to the vehicle after the battery has been changed. Once the battery has been registered again, all comfort features will be available without limitation and any Check Control messages displayed which relate to comfort features will disappear.

## Hazard icons

The following hazard icons can be found on the vehicle battery:

| Icon                                                                                | Meaning                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|
|  | No smoking, no open flames, no sparks.                   |
|  | Wear safety goggles.                                     |
|  | Keep away from children.                                 |
|  | Risk of chemical burn: Wear gloves, do not tilt battery. |

| Icon                                                                             | Meaning                                                                                                                        |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  | Flush acid splashes with water immediately. In the event of contact with the eyes or swallowing, seek a physician immediately. |
|  | No direct daylight, no frost.                                                                                                  |
|  | Follow the operating instructions.                                                                                             |
|  | Explosive gas mixture. Do not close any openings of the battery.                                                               |

## Charging the vehicle battery

### General information

Make sure that the vehicle battery is always sufficiently charged to ensure that the vehicle battery can be used for its entire service life.



A discharged battery is indicated by a red indicator light.

Charge the vehicle battery when the drive-off power is insufficient.

The following circumstances can negatively affect the vehicle battery's performance:

- ▷ Frequent short-distance drives.
- ▷ Stationary periods of more than one month.

### Safety information

#### **WARNING**

Battery chargers that charge the vehicle battery from sockets in the vehicle may overload or damage the 12V electrical system. There is a risk of injury and risk of property damage. Only connect battery chargers for the vehicle

battery to the jump-start terminals in the engine compartment.

### Charging the vehicle battery

To charge the vehicle battery, first switch off the combustion engine, then use the jump-start terminals in the engine compartment.

Additional information:

Jump-start terminals, refer to page [387](#).

### Power interruption

After a power interruption, some equipment needs to be newly initialized or individual settings updated, for example:

- ▷ Parking brake, refer to page [133](#).
- ▷ With Memory function: Store the positions again.
- ▷ Time: Update.
- ▷ Date: Update.
- ▷ Glass sunroof: Initialize the system.

### Deep sleep mode

Use deep sleep mode for long stationary periods.

In addition, follow the instructions on long stationary periods in the Service life of the high-voltage battery section.

Additional information:

- ▷ Deep sleep mode, refer to page [45](#).
- ▷ High-voltage battery service life, refer to page [337](#).

### Disposing of old batteries



Have old batteries disposed of by an authorized service center or another qualified service center or repair shop, or take them to a collection point.

Transport and store full vehicle batteries in an upright position.

Secure the vehicle battery so that it does not tip over during transport.



Batteries contain harmful chemicals. Disposing of batteries with household waste is prohibited by law.

## Fuses

### General information

The fuses are located at different places in the vehicle.

Information on the fuse layout and the positions of the fuse boxes is available on the Internet: [fusecard.bmw.com](http://fusecard.bmw.com).

### Safety information

#### **WARNING**

Incorrect and repaired fuses can overload electrical lines and components and lead to fire. There is a risk of injury and risk of property damage. Never attempt to repair a blown fuse. Do not replace a nonworking fuse with a substitute of another color or amperage rating.

### Replacing fuses

The vehicle manufacturer recommends having the fuses replaced by an authorized service center or another qualified service center or repair shop.



# Breakdown Assistance

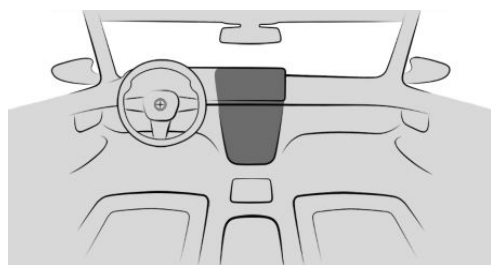
## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

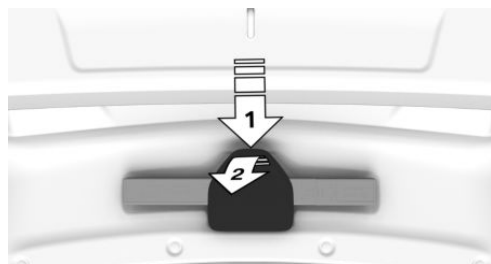
## Hazard warning system



Hazard warning system button

The red light in the button flashes when the hazard warning system is turned on.

## Warning triangle



The warning triangle is located on the inside of the tailgate.

Press on the release, arrow 1, and swivel the cover down, arrow 2.

## First-aid kit

### General information

Depending on the vehicle equipment and national-market version, the vehicle is equipped with a first-aid kit.

Some of the articles have a limited service life.

Check the expiration dates of the contents regularly and replace any expired items promptly.

### Storage

Storage for the first-aid kit is provided in the cargo area.

## Emergency call

### Principle

In case of an emergency, an emergency call can be triggered automatically by the system or manually.

### Intelligent emergency call

The vehicle features an Intelligent Emergency Call system, depending on vehicle equipment.

The Intelligent Assist system establishes a connection with the BMW Response Center.

Intelligent emergency calls are made using a SIM card that is integrated into the vehicle.

The BMW Response Center then makes contact with the occupants of the vehicle and initiates further steps to help.

If an intelligent emergency call is made, the data used to determine necessary rescue



measures, e.g., the vehicle's current location if it can be determined, is sent to the BMW Response Center.

Even if the driver is unable to respond, the BMW Response Center can, under certain circumstances, initiate steps to provide further assistance.

Even if the BMW Response Center is no longer heard through the loudspeakers, the BMW Response Center may still be able to hear the occupants of the vehicle.

The BMW Response Center ends the emergency call.

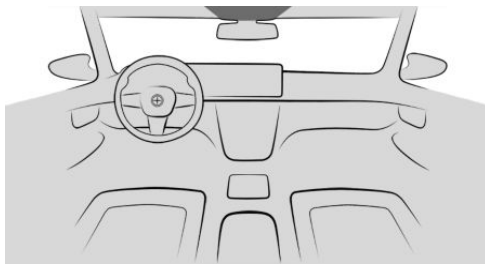
## General information

Only press the SOS button in the headliner in an emergency.

For technical reasons, the emergency call cannot be guaranteed under unfavorable conditions.

The Head-up display may turn off while an emergency call is ongoing.

## Overview



The SOS button is located in the headliner.

## Functional requirements

To use the emergency call, the following functional requirements must be met:

- ▷ Standby state is switched on.
- ▷ The Emergency Call system is functioning correctly.
- ▷ The integrated SIM card in the vehicle has been activated.

## Automatic triggering

Under certain conditions, for example if the airbags are deployed, an emergency call is automatically triggered immediately after an accident of corresponding severity. Automatic emergency call is not affected by pressing the SOS button.

If an emergency call is placed, all other signal tones and audio sources such as the Park Distance Control are muted.

## Manual triggering

To initiate an emergency call manually, proceed as follows:

1. Tap the cover flap of the SOS button to open it.
2. Press and hold the SOS button in the headliner until the LED near the button illuminates green.
  - ▷ The LED is illuminated green when an emergency call has been initiated.

If a cancel prompt appears on the control display, the emergency call can be aborted. If the situation allows, wait in the vehicle until the voice connection has been established.

  - ▷ The LED flashes green when the connection to the BMW Response Center has been established.

## Malfunction

The function of the emergency call may be impaired.

The LED near the SOS button flashes for approx. 30 seconds. A Check Control message is displayed.



Have the vehicle checked by an authorized service center or another qualified service center or repair shop.

## What to do after an accident

### General information

After an accident, take the following safety precautions for the high-voltage system:

- ▶ Apply the parking brake, then turn off drive-ready state and standby state.
- ▶ Secure the accident site.
- ▶ Lock the vehicle after exiting.
- ▶ Immediately inform the emergency responders, police, fire department, or towing service that the vehicle is equipped with high-voltage system.
- ▶ The vehicle must be recovered by an authorized service center or another qualified service center or repair shop.
- ▶ Do not inhale any gases escaping from the high-voltage battery; if needed, maintain a safe distance from the vehicle.

### Safety information

#### **WARNING**

Contact with live components can lead to an electric shock. There is a risk of injury, danger to life, and risk of property damage. After an accident, do not touch any high-voltage components such as orange colored high-voltage cables or parts that are in contact with exposed high-voltage cables.

#### **WARNING**

The fluids in the high-voltage battery are corrosive. There is a risk of injury. Do not touch fluids escaping from the high-voltage battery.

#### **WARNING**

If the high-voltage battery is damaged, gases may leak from the high-voltage battery. There is a risk of injury, danger to life, and risk of property damage. Do not inhale leaking gas and keep away from the vehicle, e.g., after an accident.

## Jump-starting

### General information

If the battery is discharged, the combustion engine can be started using the battery on another vehicle and two jumper cables. Only use jumper cables with fully insulated clamp handles.

### Safety information

#### **WARNING**

Contact with live components can lead to an electric shock. There is a risk of injury, danger to life, and risk of property damage. Do not touch any components that are under voltage.

#### **WARNING**

If the jumper cables are connected in the incorrect order, spark formation may occur. There is a risk of injury. Pay attention to the correct order during connection.

**⚠ WARNING**

In the case of body contact between the two vehicles, a short circuit can occur while jump-starting. There is a risk of injury and risk of property damage. Make sure that no body contact occurs.

**⚠ NOTICE**

Swapping the positive and negative terminals can permanently damage components of the hybrid system or the vehicle electronics. There is a risk of property damage. Be careful not to swap the positive and negative terminals. Take note of the information label in the area of the positive terminal.

## Preparation

1. Check whether the battery of the other vehicle has a voltage of 12 volts. The voltage information can be found on the battery.
2. Switch off the engine of the assisting vehicle.
3. Switch off any electrical components in both vehicles.

## Jump-start terminals

The jump-start terminals are located in the engine compartment.

Additional information:

For an overview, refer to page 367.

Open the covers of the jump-start terminals.

## Connecting jumper cables

Before you begin, switch off all unnecessary electronic systems/components such as the radio on the assisting and receiving vehicles.

1. Open the lid of the jump-start terminal.
2. Attach one terminal clamp of the positive jumper cable to the positive battery terminal,

or to the corresponding jump-start terminal of the vehicle providing assistance.

3. Attach the terminal clamp on the other end of the cable to the positive battery terminal, or to the corresponding jump-start terminal of the vehicle to be started.
4. Attach one terminal clamp of the negative jumper cable to the negative battery terminal, or to the corresponding engine or body ground of assisting vehicle.
5. Attach the second terminal clamp to the negative battery terminal, or to the corresponding engine or body ground of the vehicle to be started.

## Establishing drive-ready state

1. Start the engine of the assisting vehicle and let it run for several minutes at an increased idle speed.

If the vehicle to be started has a diesel engine: Let the engine of the assisting vehicle run for approx. 10 minutes.

2. Establish the drive-ready state for the vehicle to be started as usual.

If the first attempt to start the engine is not successful, wait a few minutes before making another attempt in order to allow the discharged battery to recharge.

3. Disconnect the jumper cables in the reverse order.

Check the battery and recharge, if needed.

## Tow-starting/towing

### Safety information

**⚠ WARNING**

When tow-starting/towing while safety systems or driver assistance systems are activated, the behavior of certain systems may lead to an accident, e.g., due to automatic

braking or acceleration. There is a risk of accident, injury, and property damage. Do not use the corresponding safety systems or driver assistance systems when tow-starting/towing.

### **WARNING**

Exceeding or falling below specified limit values, e.g., weight, distance traveled, or speed, can result in damage and malfunctions as well as put health at risk. There is a risk of injury, danger to life, and risk of property damage. Comply with the specified limit values.

## Pushing the vehicle

To remove a broken-down vehicle from the hazard area, it can be pushed for distances of approx. 328 ft/100 m at a speed of max. 6 mph /10 km/h.

Additional information:

Rolling or pushing the vehicle, refer to page 126.

## Transporting the vehicle

### General information

The vehicle must be transported on a loading platform or tow dolly.

The vehicle must be transported by an authorized service center or another qualified service center or repair shop.

### Safety information

### **NOTICE**

The vehicle can be damaged when towing the vehicle with a single lifted axle. There is a risk of property damage. Have vehicle transported on a loading platform or use a tow dolly. Tow dollies must be used under

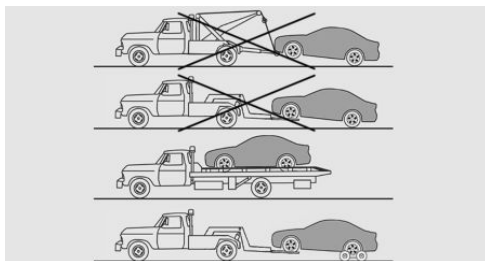
the rear wheels only. Also make sure that no wheel is touching the ground.

### **WARNING**

The vehicle can become damaged when lifting and securing it. There is a risk of injury and risk of property damage.

- ▷ Only lift the vehicle using a suitable device.
- ▷ Do not lift or secure the vehicle on the towing eye, rims, body components, or chassis components.
- ▷ For transport, secure the vehicle by placing special tire straps over the tire tread surfaces in the vehicle's longitudinal direction.

## Tow truck



Have vehicle transported on a loading platform or use a tow dolly.

When using a tow dolly, make sure that none of the wheels touch the ground. This method should be used for distances of max. 124 miles/200 km. Follow the instructions, as well as specified loads and speeds, given by the tow dolly manufacturer.

## Towing other vehicles

### Principle

Switch on the hazard warning system, depending on local regulations.

If the electrical system has failed, clearly identify the vehicle being towed by placing a sign or a warning triangle in the rear window.

## Safety information

### **WARNING**

If the gross vehicle weight of the towing vehicle is lighter than the vehicle to be towed, the towing eye may shear off or the vehicle may become uncontrollable. There is a risk of accident, injury, and property damage. Make sure that the gross vehicle weight of the towing vehicle is heavier than the vehicle to be towed.

### **WARNING**

Different levels of braking may occur when tow-starting/towing with Adaptive Recuperation. There is a risk of accident, injury, and property damage. Deactivate Adaptive Recuperation before tow-starting/towing.

### **NOTICE**

If the tow bar or tow rope is attached incorrectly, damage to other vehicle parts can occur. There is a risk of property damage. Correctly attach the tow bar or tow rope to the towing eye.

## Tow bar

The towing eyes used should be on the same side on both vehicles.

If it is impossible to avoid mounting the tow bar at an inclination, note the following:

- ▷ Free movement is limited when cornering.
- ▷ The tow bar will generate lateral forces if it is secured with an inclination.

## Tow rope

Observe the following notes when using the tow rope:

- ▷ Use nylon ropes or straps, which will enable the vehicle to be towed without jerking.
- ▷ Make sure the tow rope is not twisted when fastening.
- ▷ Check the attachment of the towing eye and tow rope in regular intervals.
- ▷ Do not exceed a towing speed of 30 mph /50 km/h.
- ▷ Do not exceed a towing distance of 3 miles/5 km.
- ▷ When driving off to tow the vehicle, make sure that the tow rope is taut.

## Towing eye

### Principle

The towing eye is a device that can be screwed onto the vehicle in order to, e.g., secure tow cables or tow rods.

### General information



The screw-in towing eye should always be carried in the vehicle.

The towing eye can be screwed in at the front or rear of the vehicle.



## Safety information

### NOTICE

If the towing eye is not used as intended, there may be damage to the vehicle or to the towing eye. There is a risk of property damage. Follow the notes on using the towing eye.

## Storage

Depending on vehicle equipment, the towing eye may be stored in a bag as follows:

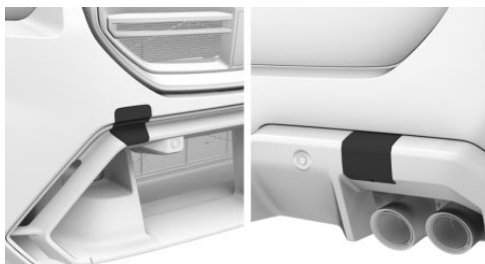
- ▶ In the cargo area under the cargo area floor.
- ▶ In the cargo area on the left or right side.
- ▶ In the cargo area behind a side trim panel.

## Using the towing eye

When using the towing eye, note the following:

- ▶ Use only the towing eye provided with the vehicle.
- ▶ Turn the towing eye at least 5 turns clockwise and screw it in as far as it will go. If necessary, tighten with a suitable object.
- ▶ After use, unscrew the towing eye counter-clockwise.
- ▶ Use the towing eye for towing on paved roads only.
- ▶ Avoid lateral loading of the towing eye, for instance do not lift the vehicle by the towing eye.
- ▶ Check the attachment of the towing eye in regular intervals.

## Towing eye thread



The towing eye thread is located behind a cover on the front and rear bumper.

## Removing the cover

Front bumper: Press on the mark on the bottom edge of the cover to push it out.

Rear bumper:

1. Grasp both sides of the cover and pull it slightly backward.
2. Lightly push the retaining clip upward through the opening on the underside of the cover.
3. Turn the cover up and remove.

Detach the catch straps from the cover and stow the cover securely in the vehicle.

## Tow-starting

Do not tow-start the vehicle.

Start the engine by jump-starting, if possible.

Have the cause of starting issues corrected by an authorized service center or another qualified service center or repair shop.

Additional information:

Jump-starting, refer to page [386](#).

# Vehicle care

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## Washing the vehicle

### General information

Regularly remove by hand foreign objects, e.g., leaves or snow, from the area below the windshield or from the air inlets at the front of the vehicle.

Wash the vehicle frequently, particularly in winter. Intense contamination and road salt can damage the vehicle.

Additional information:

Fold-out position of the wipers, refer to page 171.

### Safety information

#### **WARNING**

Contact with live components can lead to an electric shock. High voltage is applied at the charging connection. There is risk of injury, danger to life, and property damage.

It is recommended that work on the charging connection, for example cleaning, is performed by an authorized service center or another qualified service center or repair shop.

#### **WARNING**

High temperatures may occur underneath the vehicle body when driving, e.g., due to the exhaust system. Contact with the hot components can cause burns. There is a risk of injury. Do not touch hot components. Do not perform work in the vicinity of hot components until after they have cooled down.

#### **NOTICE**

The high-voltage charging socket can be damaged if the vehicle is washed while the charging flap is open. There is a risk of property damage. Close the charging flap before washing. Clean dirt behind the charging flap with a cloth.

#### **NOTICE**

When washing with an open fuel filler flap, damage may occur. There is a risk of property damage. Close the fuel filler flap before washing. Clean dirt behind the fuel filler flap with a cloth.

## Steam-jet cleaner and high pressure cleaner

### Safety information

#### **NOTICE**

When using high-pressure cleaners, components can be damaged due to the pressure or high temperatures or because an insufficient distance was maintained. There is a risk of property damage. Make sure that sufficient distance is maintained. Do not spray contin-



uously on one spot. Follow the operating instructions for the high pressure cleaners.

## Distances and temperature

When cleaning with a steam/high-pressure cleaner, make sure to use the specified temperatures and distances.

Maximum temperature: 140°F/60°C.

Minimum distance to glass sunroof:  
31.5 in/80 cm.

Minimum distance of 12 in/30 cm to the following components:

- ▷ Sensors.
- ▷ Cameras.
- ▷ Seals.
- ▷ Lights.
- ▷ Air inlets in front of vehicle.
- ▷ Cables.
- ▷ Plug connectors.

## Automatic car washes or tunnel car washes

### Safety information

#### NOTICE

Improper use of automatic car washes or tunnel car washes can cause damage to the vehicle. There is a risk of property damage. Observe the following instructions:

- ▷ Give preference to cloth car washes or those that use soft brushes in order to avoid paint damage.
- ▷ Note the permissible vehicle dimensions for the tunnel car wash or car wash.
- ▷ Do not drive through a car wash or tunnel car wash with guide rails higher than 4 in/10 cm to avoid damage to the body.
- ▷ Observe the tire width of the guide rail to avoid damage to tires and rims.

- ▷ Fold in exterior mirrors to avoid damage to the exterior mirrors.
- ▷ Deactivate the wiper and, if necessary, rain sensor to avoid damage to the window wiper system.
- ▷ Take off all removable attachments, e.g., antennas.

## Driving into a tunnel car wash

#### NOTICE

Selector lever position P is automatically engaged when standby state is switched off. The wheels are blocked. There is a risk of property damage. Do not switch off standby if the vehicle is meant to coast, e.g., in a tunnel car wash.

In a tunnel car wash, the vehicle must be able to roll freely.

Some tunnel car washes do not permit persons in the vehicle. The vehicle cannot be locked from the outside when in selector lever position N. A signal sounds when an attempt is made to lock the vehicle.

Additional information:

Rolling or pushing the vehicle, refer to page [126](#).

## Driving out of a tunnel car wash

Ensure that the vehicle key is in the car.

Turn on the drive-ready state.

Additional information:

Drive-ready state, refer to page [46](#).

## Lights

Do not rub wet lights dry and do not use abrasive or acidic cleaning agents or cleaning agents containing alcohol.

Soak areas that have been dirtied, for instance from insects, with auto shampoo and wash off with water.



Thaw ice with de-icing spray; do not use an ice scraper.

## After washing the vehicle

After washing the vehicle, apply the brakes briefly to dry them. Otherwise, their braking effect may be reduced. The heat generated while braking dries brake disks and brake pads and protects them against corrosion.

Completely remove all residues on the windows to minimize loss of visibility due to smearing and to reduce wiper noises and wiper blade wear.

# Vehicle care

## Vehicle care products

### General information

BMW recommends using vehicle care and cleaning agents from BMW. Suitable vehicle care products are available from an authorized service center or another qualified service center or repair shop.

### Safety information

#### **WARNING**

Cleaning agents can contain substances that are dangerous and harmful to your health. There is a risk of injury and risk of property damage. When cleaning the interior, open the doors or windows. Only use cleaning agents that are intended for cleaning the respective component. Follow the instructions on the packaging.

## Vehicle paintwork

### General information

Regular vehicle care contributes to driving safety and value retention. Environmental in-

fluences in areas with elevated air pollution or natural contaminants such as tree resin or pollen can affect the vehicle paintwork. Tailor the frequency and extent of the vehicle care to these influences.

Aggressive substances such as spilled fuel, oil, grease or bird droppings must be removed immediately to prevent alterations or discolorations of the finish.

### Matte paintwork

Only use cleaning and care products suitable for vehicles with matte paintwork.

### Plastic wrap

Use only cleaning and care products that are suitable for vehicles with a plastic wrap.

### Leather care

Remove dust from the leather regularly, using a cloth or vacuum cleaner.

Otherwise, particles of dust and road grime chafe in pores and folds, and lead to heavy abrasion and premature degradation of the leather surface.

To guard against discoloration such as from clothing, clean leather and provide leather care approx. every two months.

Clean light-colored leather more frequently because contamination on such surfaces is substantially more visible.

Use leather care products; otherwise, dirt and grease will gradually break down the protective coating of the leather surface.

Remove aggressive substances, e.g., sunscreen, immediately to prevent alterations or discolorations of the leather.

### Synthetic leather care

Clean synthetic leather regularly with a damp microfiber cloth or vacuum cleaner.

Otherwise, dust and road grime particles will rub into pores and folds, causing significant



abrasion and premature degradation of the surface.

In case of major soiling, use a moist soft sponge or microfiber cloth with suitable interior cleaners.

Immediately remove aggressive substances, e.g., sunscreen, to prevent alterations or discolorations of the synthetic leather.

## Fabric care

### General information

In case of major contaminations such as beverage stains, use a moist soft sponge or microfiber cloth with a suitable interior cleaners.

Immediately remove aggressive substances, e.g., sunscreen, to prevent alterations or discolorations of the fabric.

## Safety information

### NOTICE

Open hook and loop fasteners, zippers, or applications, e.g., studs on clothing can damage the seat covers and the other fabric and leather covers in the vehicle. There is a risk of property damage. Make sure that the fasteners are closed.

### Upholstery material care

Vacuum regularly with a vacuum cleaner.

Clean extensively down to the seams. Avoid rubbing the material vigorously.

### Textile care

Use a microfiber cloth for cleaning minor contamination.

Dampen the cloth with water.

### Alcantara

Use microfiber cloth soaked with water to clean minor soiling. Avoid rubbing the material vigorously.

## Caring for special components

### Displays, operating elements, and protective glass of the Head-up display

#### NOTICE

Surfaces can be damaged by improper cleaning, e.g., by using chemical cleaners, or from moisture or liquid of any kind. There is a risk of property damage.

- ▷ Avoid pressure that is too high and do not use any scratching materials.
- ▷ Use a dry, clean antistatic microfiber cloth for cleaning displays.
- ▷ Clean the operating elements and, depending on vehicle equipment, the protective glass of the Head-up display with a damp microfiber cloth and standard household dish soap.

### Light-alloy wheels

When cleaning the vehicle, use only neutral rim cleaners having a pH value from 5 to 9. Do not use abrasive cleaning agents or steam-jet cleaners above 140°F/60°C. Follow the manufacturer's instructions.

Corrosive, acidic, or alkaline cleaning agents can damage the rim surface and the protective layer on adjacent components, e.g., the brakes.

After cleaning, apply the brakes briefly to dry them. The heat generated while braking dries brake disks and brake pads and protects them against corrosion.

## Chrome surfaces

Carefully clean chrome-like surfaces, especially if exposed to road salt, using plenty of water as well as auto shampoo as needed.

## Rubber components

Environmental influences can cause surface contamination of rubber parts and a loss of gloss. Use only water and suitable cleaning agents for cleaning.

Treat especially worn rubber parts with rubber care products at regular intervals. When cleaning rubber seals, do not use any silicon-containing vehicle care products in order to avoid damage or noises.

## Wiper blades

The wiper blades are cleaned by using the window washer system.

Avoid cleaning the wiper blades manually, as this may reduce wiper performance.

## Side windows

If there is noise when opening and closing the side windows, e.g., squeaking, clean the inside and outside of the side windows once using a damp cloth and standard dish soap. Then open and close the slightly damp side windows once.

## Fine wood parts

Clean the fine wood veneer and fine wood components with a damp cloth. Then dry with a soft cloth.

## Plastic components

### NOTICE

Solvent cleaners that contain alcohol or solvents such as lacquer thinners, cold cleaning agents, fuel and such, can damage plastic parts. There is a risk of property damage.

Clean with a microfiber cloth. Moisten the cloth lightly with water if necessary.

When cleaning plastic parts, make sure that no fabric parts, e.g., the headliner, become wet.

## Carbon parts

For easy cleaning of carbon parts, use a microfiber cloth, water, and silicone-free cleaner to remove everyday soiling.

Corrosive, acidic, or alkaline cleaning agents can alter the surface.

If necessary, have carbon parts removed by an authorized service center or another qualified service center or repair shop.

## Seat belts

### WARNING

Chemical solvent cleaners can destroy the fabric of the seat belts and lead to seat belts no longer having their protective effect. There is a risk of injury and danger to life. Use only a mild soap solution for cleaning the seat belts.

Dirty belt straps impede the reeling action and thus should be avoided for safety reasons.

Use only a mild soap solution for cleaning the installed belt straps.

Seat belts should only be allowed to retract if they are dry.

## Carpets and floor mats

### WARNING

Objects in the driver's footwell can limit the pedal travel or block a depressed pedal. There is a risk of accident, injury, and property damage.



- ▷ Stow objects in the vehicle such that they are secured and cannot enter into the driver's footwell.
- ▷ Use (carpet) floor mats that are suitable for the vehicle and can be securely attached to the floor.
- ▷ Do not use loose floor mats, and do not layer multiple floor mats on top of one another.
- ▷ Make sure that there is sufficient clearance for the pedals.
- ▷ Make sure that floor mats are securely reattached after removing them, e.g., when cleaning.

The floor mats can be removed from the interior for cleaning.

If the floor carpets are very contaminated, clean with a microfiber cloth and water or a textile cleaner. To prevent matting of the carpet, rub back and forth in the driving direction only.



# Technical data

## Vehicle features and options

This chapter describes model-specific equipment, systems, and functions that are currently available, or may become available in the future, even if they are not present in the vehicle.

Additional information:

Vehicle equipment, refer to page 8.

## General information

The technical data and specifications in the Owner's Manual are used as guidance values. Vehicle-specific data may deviate from this,

for instance due to the optional equipment chosen, national-market version, or country-specific measuring process. More specific values can be obtained in approval documents, on the vehicle info label, or from an authorized service center or another qualified service center or repair shop.

## Dimensions

The dimensions can vary depending on the model version, equipment version or country-specific measurement procedure.

The height of the vehicle can also differ, e.g., due to tires and vehicle load.

## Detailed technical data

### BMW M5 Sedan

#### Dimensions

|                       |    |       |
|-----------------------|----|-------|
| Width with mirrors    | in | 84.9  |
|                       | mm | 2,156 |
| Width without mirrors | in | 77.6  |
|                       | mm | 1,970 |
| Height                | in | 59.4  |
|                       | mm | 1,510 |
| Length                | in | 200.6 |
|                       | mm | 5,096 |
| Wheelbase             | in | 118.3 |
|                       | mm | 3,006 |
| Turning circle Ø      | ft | 41.3  |
|                       | m  | 12.6  |

BMW M5 Sedan

Dimensions

|                    |        |      |
|--------------------|--------|------|
| Fuel tank, approx. | US gal | 15.9 |
|                    | Liters | 60   |

BMW M5 Sedan

Weight

|                                     |    |       |
|-------------------------------------|----|-------|
| Maximum permissible payload         | lb | 1,003 |
|                                     | kg | 455   |
| Maximum permissible total weight    | lb | 6,482 |
|                                     | kg | 2,940 |
| Maximum permissible front axle load | lb | 3,252 |
|                                     | kg | 1,475 |
| Maximum permissible rear axle load  | lb | 3,417 |
|                                     | kg | 1,550 |

# Appendix

## General information

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Any updates to the Owner's Manual of the vehicle are listed here.

## Updates made after the editorial deadline

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The following chapters were updated in the printed version of the Owner's Manual after the editorial deadline for the Integrated Owner's Manual in the vehicle had closed:

- ▶ Operation: Safety: BMW Drive Recorder: Functional requirements.
- ▶ Operation: Parking: Automatic Park Assistant.

## License Texts and Certifications

### USA/Canada

HeadUnit: MGU22

Harman



Model: MGU22H

FCC ID: T8GMGU22H

IC: 6434A-MGU22H

HVIN: MGU22H\_52





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## California Proposition 65 Warning

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For vehicles sold in California:

### **California Proposition 65 Warning**



#### **WARNING**

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).

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## YOUR DIGITAL VEHICLE INFORMATION.

The BMW Driver's Guide app explains the equipment of your vehicle and offers further scopes and functions:



All information surrounding navigation, entertainment and communication

Photorealistic animations for various vehicle functions

Keyword search

360° view: Explore your vehicle interactively inside and out

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