

- ▶ Call up the Mercedes me website.
- ▶ Call up the Mercedes me user account.
- ▶ Switch to the Mercedes me Store via the linked vehicle.
- ▶ Select the Live Traffic Information service.
- ▶ Select the renewal period.
- ▶ Add the product to the shopping basket.
- ▶ Accept the general and specific terms of use. Live Traffic Information remains activated for the selected extension period. Activation begins on the date of extension.

## ■ Displaying traffic information on the map

### Requirements:

- **Traffic incidents** and **Free-flowing traffic** are switched on (→ page 398).

Multimedia system:




- ▶ If necessary, move the map (→ page 401).

The map shows the following traffic information depending on the activated settings:


- Traffic incidents

These are roadworks, road blocks and warning messages, for example.

When route guidance is active, the symbols for traffic incidents will be shown in colour on the route. Off the route they are grey.

- Warning messages 

Traffic safety information can be shown, e.g. if there are people on the carriageway.

If the vehicle approaches a danger area, for example the end of a traffic jam in a dangerous position, the  symbol is shown on the map. If **Announce traffic warnings** is switched on and a message has been issued, an additional announcement is made.

- Traffic flow information:
  - Traffic jam (red line)
  - Slow-moving traffic (orange line)
  - Heavy traffic (yellow line)
  - Free-flowing traffic (green line)
- Display for traffic delays on the current route

The smallest value for the display for traffic delays is a minute.

## ■ Showing traffic events on the route

### Requirements:

- The **Traffic incidents** display is switched on (→ page 398).

Multimedia system:



If there are traffic events on the route, these are shown on the map and in the route overview.


The display is along the entire route.

- ❗ The display is for route lengths up to approx. 2000 km.

- ❗ With the MBUX Voice Assistant you can inform yourself about traffic events on your route. Ask, for example **How is the traffic on my route?** or **How is the traffic at home?.** A voice output is given.



Example: traffic events on the map

- 1 Total delay
- 2 Traffic event symbol, e.g.  road works
- 3 Colour display of traffic flow information, delay and length, road name and/or road number
- 4 Switches traffic information display on or off

**i** If a message about forming an emergency corridor has been issued, **Allow rescue lane** is shown in the navigation window.

- ▶ To see all of the traffic events on the route, swipe to the right or left in the route overview. The route section is highlighted on the map.

### Displaying detailed information

- ▶ Tap on a traffic event symbol or traffic flow information in the route overview (when route guidance is active) or on the map.

The detailed information is shown, for example the road section, the direction and the delay.

If a traffic jam symbol is selected, the trend can be displayed as decreasing or increasing.

- ▶ **Several pieces of traffic flow information are available in the immediate vicinity on the map:** tap on the upper line and select the traffic flow information in the list.
- ▶ **Several traffic events are on the map in the immediate vicinity:** tap on the top traffic event symbol and select from the list of traffic events.

### Switching the traffic information display on

Multimedia system:



- ▶ Select **View**.
- ▶ **Traffic**.
- ▶ Activate **Traffic incidents** and **Free-flowing traffic**.  
Traffic incidents, for example roadworks, local area reports (e.g. fog) and warning messages, are shown on the route.

### Car-to-X-Communication

#### Car-to-X-Communication overview

The following requirements apply for the Car-to-X-Communication service:

- The vehicle is equipped with an MBUX multimedia system with navigation function.
- There is a subscription for the Live Traffic Information service.
- The Car-to-X-Communication service is activated in your Mercedes me user account.

- ❗ Car-to-X communication is not available in all countries.

The communication module automatically establishes an Internet connection once the vehicle is switched on. If there are any hazard warnings, they will be provided shortly thereafter. Depending on the mobile phone connection, the provision takes place from within a second up to about a minute.

Benefits of Car-to-X-Communication:

- Dangers are automatically detected by the vehicle or can be reported by the driver. These are then sent to vehicles with Car-to-X-Communication in the immediate vicinity.
- If available, current details relating to hazard spots near the vehicle's current position are received.

This gives you sufficient time to adapt your driving style to the traffic conditions.

The use of Car-to-X-Communication requires the regular transmission of vehicle data to Mercedes-Benz AG. The data is then immediately pseudonymised by Mercedes-Benz AG. The vehicle data is deleted after an appropriate amount of time has

elapsed (several weeks) and is not stored permanently.


- ❗ Data which serves as identification is replaced during the pseudonymisation process. In this way, your identity is protected against access by unauthorised third parties.

### ■ Displaying hazard warnings

Multimedia system:



If hazard warnings are available these can be shown as symbols on the map. The display depends on the settings for the [Traffic incidents](#) option.

- ▶ Set the option via  (→ page 398). If the option is activated, all of the symbols are shown. If the option is deactivated, the symbols are only shown when there is a hazard warning.

The following hazards may be shown on the map:


- Accidents and breakdowns
- Slippery roads, fog, crosswinds and heavy rain
- Hazards reported manually

- Vehicle with active hazard warning light
- Roadworks
- Additional hazards (if available)

- ❗ If [Announce traffic warnings](#) is switched off (→ page 384), voice output can indicate a danger area.


### ■ Sending hazard warnings


#### Reporting hazards manually

- ❗ Automatically detected hazard warnings are sent by the vehicle.
- ▶ When the map is shown, tap on the  current vehicle position. The [Position](#) menu is shown.
- ▶ Select [Report traffic incident](#). The [Thank you for supporting accident prevention!](#) message appears.



## Route guidance with augmented reality

### Overview of route guidance with augmented reality

 This function is an on-demand feature (→ page 25).

 **WARNING** Risk of accident and injury as a result of distraction, incorrect depiction or wrong interpretation of the display




The camera image of the augmented reality display is not suitable as a guide for driving.

-  Always keep an eye on the actual traffic situation.
-  Avoid extended observation of the camera image.

During route guidance with augmented reality a camera image with the real traffic scene is shown on the central display before a turning manoeuvre. The camera image includes additional information, for example arrows indicating a change of direction.

If the options are switched on and this additional information is available, road names and house numbers are displayed (→ page 401).




-  House number
-  Street name
-  Change of direction arrow

Route guidance with augmented reality will not be available in some situations, e.g. in the event of poor satellite reception or roads that have not been digitised.


Route guidance with augmented reality is not available in all countries.

You can watch an animation on this topic via the following link:

### Activating route guidance with augmented reality



 **WARNING** Risk of accident and injury due to imprecise positioning of additional information

The additional information from the augmented reality display may be inaccurate and is not a substitute for observing and assessing the actual driving situation.

-  Always keep an eye on the actual traffic situation when carrying out all driving manoeuvres.


Multimedia system:



-  Select **View**.
-  Select **Augmented reality video**.

- ▶ Activate or deactivate **Augmented reality video**.

If the function is activated, the following are shown before a turning manoeuvre in the central display:

- The camera's video image  
The video image includes additional information.
- The  switch  
The video image can be shown or hidden.

- ▶ **To show or hide the video image:** tap on .

## ■ Showing property information for route guidance with augmented reality

### Requirements

- Augmented reality is activated (→ page 400).

Multimedia system:



- ▶ Select **View**.
- ▶ Select **Augmented reality video**.

- ▶ Activate **Street names** and **House numbers**. During route guidance, the activated options are shown as additional information in the camera image.

## Map and compass

### ■ Setting the map scale

Multimedia system:



### Zooming in

- ▶ When the map is shown, tap twice quickly with one finger on the central display.
- or
- ▶ Move two fingers apart on the central display.

### Zooming out

- ▶ Tap with two fingers on the central display.
  - or
  - ▶ Move two fingers together on the central display.
- i** You can set the unit of measurement of the map scale (→ page 358).


### ■ Moving the map

Multimedia system:



- ▶ When the map is displayed, swipe in any direction with one finger on the central display.

The following functions are available:



- Select a destination on the map (→ page 380).
- Select a POI (→ page 377).
- Show traffic incidents on the map (→ page 397).
- ▶ **To reset the map to the current vehicle position:** select  **Centre**.

### ■ Switching the route overview after start on or off

Multimedia system:



- ▶ Select **View**.

- ▶ Activate  or deactivate  **Overview of route after start.**

If the option is enabled, the map shows the full route after route guidance is started and, if available, all alternative routes.

## Selecting POI symbols for the map display


Multimedia system:



POIs include restaurants and hotels, for example. These are displayed as symbols on the map. Not all POIs are available in all countries.

Personal POIs are destinations which you have saved on a USB device, for example.

- ⓘ The display of POI symbols on the map can be activated or deactivated as a favourite.

- ▶ Select **View**.
- ▶ Select **POI symbols on map** .
- ▶ Activate or deactivate **Hide all points of interest**.  
When the option is switched on, all POIs are hidden on the map. The settings in the POI categories are kept.


When the option is switched off, the POIs are shown on the map according to the settings in the POI categories.

- ⓘ If the conditions are fulfilled, the POI symbols are shown with current online information (→ page 406).


## Switching display of categories for quick-access on or off

- ▶ Switch a category on or off in the menu.

## Selecting categories

- ▶ In the menu, select **Other categories** .
- ▶ Activate or deactivate **Show all**.  
When the option is switched on, the POI symbols for all categories are shown on the map.

or

- ▶ Select  the categories.
- ▶ Activate or deactivate the categories.  
The POI symbols for the selected categories are shown on the map.

## Selecting personal POI categories

- ▶ In the menu, select **Personal POIs** .

- ▶ Select  a category.

- ▶ Activate or deactivate **Display on the map**.

- ▶ **To issue a signal when approaching:** activate **Visual warning** and **Acoustic notification**.

## Resetting the POI symbol display

- ▶ In the menu, select **Reset POIs**.  
The settings are reset to the standard settings.

## Selecting the display of additional information on the map

Multimedia system:



- ▶ Select **View**.
- ▶ Select **Show additional information**.
- ▶ Switch the options on or off.

The following options are available:

- **Current street**  
If the option is enabled, it will be displayed in the navigation window.
- **Scale**

If the option is enabled, the map scale is permanently displayed on the map.

The option also influences the display on the driver's display.

- **Altitude**
- **Next junction**

If the option is switched on and the journey continues without route guidance, the name of the next intersecting street will be displayed in the navigation window.

### ■ Displaying the map version

Multimedia system:



- ▶ Select **View**.
- ▶ Select **Map data version**.  
The detail information is displayed.
- ① The online map update service from Mercedes me connect can be used to update the map data (→ page 404).

① You can obtain information about new versions of the digital map via the following options:

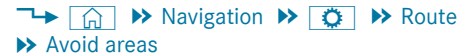
- Depending on the setting as a message in the Mercedes inbox or as an e-mail
- At any Mercedes-Benz service centre

### ■ Overview of area avoidance on the route

You can define areas along a route that you would like to avoid.

#### ■ Avoiding a new area for the route

Multimedia system:



- ▶ Select **Avoid new area**.

#### Starting using the map

- ▶ Select **Using map**.  
A red rectangle appears. This designates the area that should be avoided.
- ▶ Move the map (→ page 401).
- ▶ Set the map scale (→ page 401).

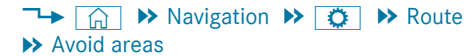
- ▶ Select **OK**.  
The area is entered into the list.

#### Starting using destination search

- ▶ Select **Via address entry**.
- ▶ Enter the address (→ page 375).
- ▶ Select the destination in the list.  
The map appears. The area is saved.

#### ■ Changing an area to be avoided

Multimedia system:



- ▶ Select an area in the list.
- ▶ Select **Edit**.
- ▶ **To move an area on the map:** swipe in any direction on the central display.

#### Changing the size of the area

- ▶ Move two fingers apart or together on the central display.
- ▶ Select **OK**.  
The area is entered into the list.

### Taking the area for the route into account

▶ Select the area in the list.

▶ Activate **Avoid area**.

If route guidance is active, a new route is calculated.




If there is no route yet, the setting is carried over to the next route guidance.

The route can include an area that is to be avoided in the following cases:

- The destination is located in an area that is to be avoided.
- There is no practical alternative route.

### Deleting an area to be avoided

Multimedia system:

  ▶▶ **Navigation** ▶▶  ▶▶ **Route**  
▶▶ **Avoid areas**

### Deleting an area to be avoided

▶ Select an area in the list.

▶ Select **Delete**.

▶ Confirm the prompt with **Yes**.

### Deleting all areas to be avoided

▶ If at least two areas to be avoided are set, select **Delete all**.

▶ Confirm the prompt with **Yes**.

### Map data update overview

As the content of a digital road map has a short life, outdated data may have a negative effect on all navigation functions. For the best MBUX navigation experience, you should install all of the map updates offered by Mercedes-Benz.

The following options are available for the update of map data:

- Online map update
  - Updates from the Mercedes me Portal
  - Update at a Mercedes-Benz service centre
- Additional costs can be incurred in this process.

### Online map update

Requirements:

- Mercedes me connect is available.
- You have a Mercedes me user account.

- The Online Map Update service is available for your region.
- The service has been activated.

 The Online Map Update service is only available in certain countries.

Installation takes place in the background as an automatic map update.

The MBUX multimedia system installs all of the available map updates for the European, North American, Korean and Japanese regions in which the vehicle is located or is moved.

The online map update is activated at the latest after the next time the vehicle is switched on.

### Updates from the Mercedes me Portal

The map data for several regions can also be updated manually. Log in with your Mercedes me user account at: <https://www.mercedes-benz.de/>

Follow the menu path **My Mercedes me account > Dashboard > Manage vehicle > Manage services > Online Map Update**. Select the regions to be downloaded to a storage medium.



After the map data has been copied, connect the storage medium with your vehicle. Select the notification with information about a new version of the map data and start the installation. After the MBUX multimedia system has been restarted, the updated map data is used.

### ■ Overview of map data

If map data is reinstalled in a vehicle, no activation code needs to be entered.

For map data purchased as data media, the enclosed activation code must be entered after starting the installation.

Activation codes are only ever valid for one vehicle.


In the event of the following problems, please contact a Mercedes-Benz service centre:

- The multimedia system does not accept the activation code.
- You have lost the activation code.

### ■ Displaying the compass

Multimedia system:



- ▶ When the map is shown, tap on the  current vehicle position until the **Position** menu is shown.
- ▶ Select **Compass**.

The compass display shows the following information:


- The current direction of travel with bearing (360° format) and compass direction
- Longitude and latitude coordinates in degrees, minutes and seconds
- Number of satellites from which a signal can be received

The information is not available in every country.

### ■ Displaying Qibla

Multimedia system:





- ▶ When the map is shown, tap on the  current vehicle position until the **Position** menu is shown.
- ▶ Select **Alerts**.  
The arrow on the compass shows the direction to Mecca in relation to the current direction of travel.  
The number of satellites received is shown.
- ⓘ This function is not available in all countries.

### ■ Setting the map scale automatically

Multimedia system:



- ▶ Select **View**.
- ▶ Activate  **Auto zoom**.  
When the option is switched on, the map scale is set automatically depending on your driving speed and the type of road.

-  The automatically selected map scale can be changed manually. After a few seconds, this is automatically reset. When the option is activated, no detailed display of the junction or a 3D image is shown in the navigation window during an upcoming driving manoeuvre.

## ■ Displaying the satellite map

### Requirements:

- There is an Internet connection.
- Mercedes me connect is available.
- You have a Mercedes me user account.
- The vehicle is connected with the user account and you have accepted the Mercedes me connect terms of use.

Further information can be found at: <https://www.mercedes.me>

- Satellite maps are available.

Multimedia system:



- ▶ Select **View**.

- ▶ Activate or deactivate **Satellite map**.

When **Satellite map** is selected, they are displayed at the following map scales:

- On-board maps

The satellite maps are displayed in map scales from 2 km.

- Online maps

The satellite maps are displayed in high-resolution map scales from 10 m.

When **Satellite map** is not selected, no satellite maps are displayed.

-  The display of satellite maps is not available in all countries.

## ■ Displaying the range

### Requirements:

- There is an Internet connection.
- Mercedes me connect is available.
- You have a Mercedes me user account.
- The vehicle is connected with the user account and you have accepted the Mercedes me connect terms of use.

Further information can be found at: <https://www.mercedes.me>

- The service is available and has been activated.

Multimedia system:




- ▶ Select **View**.

- ▶ **Range**.

The range is shown on the map with the following displays:

- For petrol and diesel vehicles: green display

When the lower reserve capacity is reached then the range display on the map is switched off.

-  The range display on the map is not available in all countries.

## ■ Displaying online map contents

### Requirements:

- There is an Internet connection.
- Mercedes me connect is available.
- You have a Mercedes me user account.

- The vehicle is connected with the user account and you have accepted the Mercedes me connect terms of use.

Further information can be found at: <https://www.mercedes.me>

- The service is available and has been activated.

Multimedia system:



Navigation



Select **View**.

Switch on an online service, e.g. **Weather**. Current weather information is displayed on the navigation map, e.g. temperature or cloud cover.

The service information is not shown in all map scales, e.g. weather symbols.

The display of online map content is not available in all countries.

## Parking service

### Notes on the parking service

**NOTE** Damage to the vehicle due to not observing the maximum permitted headroom clearance

If the vehicle height is greater than the maximum permitted headroom clearance, the roof and other parts of the vehicle may be damaged.

- ▶ Observe the signposted headroom clearance.
- ▶ If the vehicle height is greater than the permitted headroom clearance, do not enter.
- ▶ Observe the changed vehicle height with add-on roof equipment.

This service is not available in all countries.

### Selecting parking options

**NOTE** Vehicle damage due to failure to observe local information and parking conditions

The data is based on the information provided by the respective service providers.

▶ Always observe the local information and conditions.

#### Requirements:

- Navigation Services is activated in your Mercedes me user account.
- The parking service is part of the scope of the Navigation Services.
- **Parking** is activated (→ page 408).

Multimedia system:



▶ Tap on **P** the map.

or

▶ In the route overview, select **P** **Parking spaces** (→ page 385).

- ▶ Select the search position and search filter, e.g. **Near destination** and **Multi-storey car parks**.

The map shows car parks suited to the selected settings.

- ▶ Select a parking option.

The following information is displayed (if available):

- Destination address, distance from current vehicle position and arrival time
- Information on the multi-storey car park/car park, for example:
  - Opening times
  - Parking charges
  - Current occupancy
  - Maximum parking time
  - **Maximum access height**

The maximum access height shown by the parking service does not replace the need for observation of the actual circumstances.

- Available payment options (Mercedes pay, coins, bank notes, cards)
- Details on parking tariffs
- Number of available parking spaces
- Payment method (e.g. at the machine)
- Services/facilities at the parking option
- Telephone number

- ▶ Calculate the route (→ page 381).

The following functions can be used (if available):

- Searching for POIs in the vicinity.
- Saving the destination.
- Placing a call at the destination.
- Sharing the destination via the QR code.
- Calling up the web address.
- Showing the destination on the map.

### ■ Displaying parking options on the map

#### Requirements:

- Navigation Services is activated in your Mercedes me user account.

- The parking service is part of the scope of the Navigation Services.

Multimedia system:



- ▶ Activate **Parking**.

The parking options within the vicinity of the current vehicle position are shown.

### ■ Prior booking of a parking space

#### Requirements:

- Navigation Services is activated in your Mercedes me user account.
- The parking service is part of the scope of the Navigation Services.
- You have registered with your payment details for the payment of parking in the Mercedes me Portal with Mercedes pay and the respective contract partner.
- **Parking** is activated (→ page 408).

ⓘ This option is not available in all countries.

Multimedia system:



- ▶ Select a parking option on the map.
- ▶ If a parking space available to book has been selected, select **Book parking space**.
- ▶ Select the desired booking period. Take note of the cancellation conditions. If the parking space is available for the selected period, the price will be shown.
- ▶ Press **OK** to confirm.
- ▶ In the booking overview, confirm with **Book**.
- ▶ If required, enter the Mercedes me PIN. The parking space will be booked in the background. A booking confirmation including a car park ticket will be sent to your registered e-mail address.

### Making use of or cancelling the booking

- ▶ Start the Mercedes me App on your smartphone.
- ▶ Open **Menu**.

- ▶ Select **My transactions**.
- ▶ Select **Parking transactions**.
- ▶ Select the desired booking.
- ▶ **To make use of the booking:** select **Show car park ticket**.

or

- ▶ **To cancel the booking:** select **Cancel booking**.
- ⓘ If possible, a parking space booking can be cancelled up to the stated time. If a booking cannot be cancelled, this will already be shown to you during the booking procedure.

### Paying parking charges

#### Requirements:

- Navigation Services is activated in your Mercedes me user account.
- The parking service is part of the scope of the Navigation Services.
- You have registered with your payment details for the payment of parking in the Mercedes me Portal with Mercedes pay and the respective contract partner.
- **Parking** is activated (→ page 408).

- ⓘ This option is not available in all countries.

Multimedia system:



- ▶ Select a parking option on the map.
- ▶ If a car park that can be paid for has been selected, scroll down in the parking details.
- ▶ Select **Payment**. Once the vehicle has reached a parking position with payment function and the vehicle is switched off, a message appears. Using this message you can pay from the vehicle and start the payment process.

### Starting a payment procedure

- ▶ Acknowledge the message.
- ▶ Please note the maximum parking period displayed and any existing additional limitations. If required, a message will inform you about the necessity of displaying information confirming the online payment for the parking space.
- ▶ Select **Start the payment process**.
- ▶ If required, enter the Mercedes me PIN.

- ▶ Press **OK** to confirm. The successful start of your parking transaction is shown.
- ▶ Complete the booking with **OK**.
- ▶ **To cancel a parking transaction:** after receiving the confirmation request, select **Cancel**. Minimum charges may be incurred.

### Ending a parking transaction

- ▶ Stop the active transaction using the Mercedes me app. You receive a summary of the procedure and the costs.  
If an uncompleted parking transaction is detected for your vehicle as you continue your journey, a message will appear asking whether you would like to end it.
- ▶ Acknowledge the message. When the parking transaction is stopped successfully, another message appears with the details about your completed parking.

## Dashcam

### Notes on the dashcam

**!** **NOTE** Risk of legal consequences due to violation of legal regulations and data protection provisions

You are legally responsible for operation and use of the dashcam functions.

The legal requirements relating to operation and use of the dashcam can vary depending on the country in which the dashcam is operated.

This function is not permitted in all countries.

- ▶ Before using the dashcam, read up on the content of the legal regulations, in particular the data protection requirements in the respective country of use.
- ▶ Observe the legal regulations, in particular the data protection requirements.

- ① Observe the following instructions for safe operation:
  - Only use FAT32 or exFAT formatted USB storage devices.
  - **Use USB-IF certified USB storage devices.** USB-IF is a non-profit corporation and stands for USB Implementers Forum. Based on the USB specification, USB-IF certifies, for example, USB versions, corresponding cables and plugs as well as energy supply processes via the USB interface.
  - **USB storage devices may be damaged if often or permanently overwritten at high speed. Mercedes-Benz recommends a high-quality SSD drive.**  
**The abbreviation SSD stands for Solid State Drive.**
- ① The file size and therefore the duration of single recording is limited by the limitations of the USB flash drive format. Therefore FAT32 formatted USB flash drives do not allow files larger than 4 GB, for example.

When the file size is reached, the recording stops and you receive a notification.

 The following functions are available in the Gallery app:

- Switching write protection on or off
- Deleting video files

Additional information about the Gallery app (→ page 436).


### Selecting a USB device for a video recording with the dashcam


#### Requirements:

- At least one USB device is connected with the multimedia system (→ page 456).

Multimedia system:



-  Select the USB symbol.
-  Select the USB device.

 When USB devices contain multiple partitions, recorded video files are not always displayed in the recording list.

Mercedes-Benz recommends that you use USB devices with one partition.


### Starting or stopping video recording with the dashcam

#### Requirements:


- For recording and saving a video file: a USB device is connected with the multimedia system (→ page 456).
- The vehicle is switched on.

Multimedia system:




 If several USB devices are connected with the multimedia system, select a USB device (→ page 411).

If no USB device is selected, a selection is made automatically when recording starts.


 **To select a recording mode:** select **Loop recording** or **Individual recording**. **Loop recording** records several short video files. When the memory is full, recording is continued automatically. In doing so, other

files will be overwritten starting with the oldest file.

**Individual recording** stops recording when the memory limit is reached. An individual recording is automatically protected against being overwritten.

 **To start:** select **Start recording**. The length of the recording is shown. The **Do not remove the storage medium during recording. Before removing the storage medium, eject it first.** message appears. The video file is stored on the USB device.

 **To end:** select **End recording**.

 In some countries, geo-coordinates (longitude and latitude) are shown in the video image. For technical reasons, the geo-coordinates may show greater inaccuracies.

A report may appear in the following cases:

- **Individual recording:** the memory is full or there are only a few minutes recording time available. The video recording stops or will be stopped imminently.

Change the USB device or delete a video file.

- The camera is not functional, the **Camera unavailable** message appears.

Have the camera checked in a Mercedes-Benz service centre.

- If the country border indication has been switched on (→ page 412).
- If an outdoor recording is started with the camera app during a dashcam recording, the dashcam recording pauses and resumes automatically after the camera recording is finished. A notification to this effect is displayed.

## ■ Configuring dashcam settings

### Requirements:

- A USB device is connected with the multimedia system (→ page 456).

Multimedia system:

→  ▶▶ Apps ▶▶ Dashcam

▶ Select .

### Receiving notifications after passing a border crossing

- ▶ Activate **National border alert** .  
A message is shown if video is being recorded and the vehicle passes a border.

 This function is not available in all countries.

### Starting automatic video recording


- ▶ Select **Automatic loop recording**.
- ▶ Activate **Automatic loop recording**.  
When the vehicle is started, video recording starts automatically.

 This function is not available in all countries.

## Telephone

### Telephony

#### ■ Notes on telephony

 **WARNING** Risk of distraction from operating integrated communication equipment while the vehicle is in motion

If you operate communication equipment integrated in the vehicle when driving, you could be distracted from the traffic situation. This could also cause you to lose control of the vehicle.

- ▶ Only operate this equipment when the traffic situation permits.
- ▶ If you cannot be sure of this, stop the vehicle whilst paying attention to road and traffic conditions and operate the equipment with the vehicle stationary.



**⚠ WARNING** Risk of accident from operating mobile communication equipment while the vehicle is in motion

Mobile communication devices distract the driver from the traffic situation. This can also cause the driver to lose control of the vehicle.

- ▶ As a driver, only operate mobile communication devices when the vehicle is stationary.
- ▶ As a vehicle occupant, use mobile communication devices only in the designated area, e.g. in the rear passenger compartment.

You must observe the legal requirements for the country in which you are currently driving when operating the multimedia system and mobile communication equipment in the vehicle.

**⚠ WARNING** Risk of injury due to objects being stowed incorrectly

If objects in the vehicle interior are stowed incorrectly, they can slide or be thrown around

and hit vehicle occupants. In addition, cup holders, open stowage spaces and mobile phone receptacles cannot always retain all objects within.

There is a risk of injury, particularly in the event of sudden braking or a sudden change in direction.

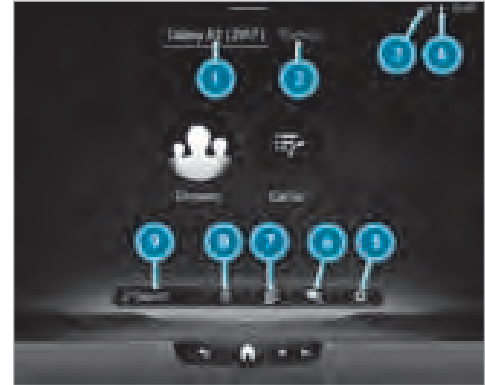
- ▶ Always stow objects so that they cannot be thrown around in such situations.
- ▶ Always make sure that objects do not protrude from stowage spaces, luggage nets or stowage nets.
- ▶ Close the lockable stowage spaces before starting a journey.
- ▶ Always stow and secure heavy, hard, pointed, sharp-edged, fragile or bulky objects in the boot/load compartment.

Observe the additional information on stowing mobile communications devices correctly:

- Loading the vehicle (→ page 129)

Further information can be obtained from a Mercedes-Benz service centre or at: <https://www.mercedes-benz-mobile.com/>

## ■ Telephone menu overview



- ① Bluetooth® device name of the currently connected mobile phone/of the mobile phone
- ② Bluetooth® device name of the currently connected mobile phone/of the mobile phone (when several mobile phones are connected)
- ③ Signal strength of the mobile phone network
- ④ Battery status of the connected mobile phone

- 5 Options
- 6 Messages
- 7 Calls up devices
- 8 Numerical pad
- 9 Starts contact search

### Bluetooth® profile overview

Bluetooth® profile of the mobile phone	Function
PBAP (Phone Book Access Profile)	Contacts are automatically displayed in the multimedia system
MAP (Message Access Profile)	Message functions can be used
HFP (Hands Free Profile)	Wireless telephony is available

### Overview of mobile phone usage

Depending on the equipment up to four mobile phones can be connected at once:

- A mobile phone is connected to the multimedia system via Bluetooth® (→ page 414).

- Additional mobile phones are connected with the multimedia system via Bluetooth® (→ page 415).
  - You can use all the functions of the multimedia system with all mobile phones.

**i** Irrespective of this, Bluetooth® audio functionality can be used with any mobile phone (→ page 456).

### Information on telephony

The following situations can lead to the call being disconnected while the vehicle is in motion:

- There is insufficient network coverage in the area
- You move from one transmission/reception station to another and no communication channels are free
- The SIM card used is not compatible with the network available
- A mobile phone with "Twincard" is logged into the network with the second SIM card at the same time

The multimedia system supports calls in HD Voice® for improved speech quality. A requirement for this is that the mobile phone and the mobile phone network provider of the person you are calling support HD Voice®.

Depending on the quality of the connection, the voice quality may fluctuate.

### Connecting a mobile phone

#### Requirements

- Bluetooth® is activated on the mobile phone (see the manufacturer's operating instructions).
- Bluetooth® is activated on the multimedia system (→ page 356).

Multimedia system:

 **Devices**

#### Searching for a mobile phone

 Select **Connect new device**.

## Authorising a mobile phone

- ▶ Select a mobile phone.  
A code is displayed in the multimedia system and on the mobile phone.
- ▶ **If the codes match:** confirm the code on the mobile phone.
- ① For older mobile phone models, enter a one to sixteen-digit number code on the mobile phone and on the multimedia system for authorisation.
- ① Up to 15 mobile phones can be authorised on the multimedia system.
- ① Up to four of the mobile phones activated in the driver's user profile are automatically reconnected.
- ① A mobile phone can be used by the driver and front passenger as a Bluetooth® audio device (→ page 456).

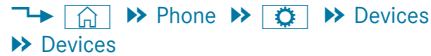
You can watch an animation on this topic via the following link:

## Connecting an additional mobile phone

### Requirements

- At least one mobile phone is already connected to the multimedia system via Bluetooth®.

Multimedia system:



- ▶ Select **Connect new device**.
- ▶ Select the mobile phone.

## Switching between mobile phones

Multimedia system:



The connected mobile phones are shown individually in separate tabs.

- ▶ Select the tab with the desired mobile phone. Selecting the tab of a specific mobile phone displays the associated telephone contents. Selecting the other tab switches the view to the other telephone.  
The submenus in the telephone menu (e.g. contacts, call lists, messages) relate to the

currently selected mobile phone with the exception of the telephone settings. In the telephone settings, settings can be made for both mobile phones.

## Changing the function of a mobile phone

Multimedia system:



### Activating a function

- ▶ Select a grey symbol in the line of a mobile phone.  
The corresponding function is activated.

### Deactivating a function

- ▶ **One function is active:** select the coloured symbol in the line of a mobile phone. The mobile phone is disconnected from the multimedia system.
- ▶ **Several functions are active:** de-select an active function in the line of one of the mobile phones.  
The corresponding function is deactivated.

## Deleting a mobile phone

Multimedia system:

Phone Devices

- ▶ Select **Devices**.
- ▶ Select in the line of the mobile phone.
- ▶ Select **Delete device**.  
The mobile phone is deleted from the system.

## Starting or stopping mobile phone voice recognition

### Requirements:

- At least one mobile phone is connected to the multimedia system (→ page 414).
- The tab with the mobile phone for which voice recognition should be started is selected (→ page 415).

### Starting mobile phone voice recognition

- ▶ Press and hold the button on the multi-function steering wheel for more than one second.  
Voice recognition is started for the currently selected mobile phone.

## Stopping mobile phone voice recognition

- ▶ Press the or button on the multi-function steering wheel.

If a mobile phone is connected via Smartphone Integration, the voice recognition of this mobile phone is always started or stopped.

### Note about contact suggestions

The multimedia system can show contact suggestions based on frequently used contacts, outgoing calls and text messages. For this, the **Allow contact suggestions** option must be switched on (→ page 359).

When you open the call list or the message menu, contacts which you can call or write to will be suggested to you. Suggestions will be shown in the **Suggestionstab**.

The multimedia system does not use the content of messages for suggestions.

### Selecting options for contact suggestions

### Requirements:

- 

- The multimedia system has gathered sufficient data in order to show contact suggestions.

Multimedia system:

Phone

- ▶ Select **Call list** or **Contacts**.
- ▶ Select **Suggestions**.
- ▶ Select in the line of the suggested contact.

The following option is available for selection:

- **Do not suggest now**

## Calls

### Telephone operation

Multimedia system:

Phone

### Making a call by entering the numbers

- ▶ Select .
  - ▶ Enter a number.
  - ▶ Select .
- The call is made.

### Accepting a call

- ▶ Select  **Accept** .

### Rejecting a call

- ▶ Select  **Reject** .

### Answering a call with a message





- ▶ Select  **Reply** .

### Ending a call

- ▶ Select .

### ■ Activating functions during a call

The following functions are available during a call:

-  **End call**
-  **Micro. off**
-  **Keypad** (show to send DTMF tones)
-  **Add call**
- **Hands-free**  
Transfer the call, e.g. to **Front**, **Rear** or **All seats**.
- **Private mode**

Transfer the call the telephone or headphones, for example.

- ▶ Select a function.
- ⓘ Observe that the functions and symbols can vary depending on the vehicle equipment.

### ■ Conducting calls with several participants

#### Requirements:

- There is an active call (→ page 416).
- Another call is being made.


#### Switching between calls

- ▶ Select the contact.  
The selected call is active. The other call is on hold.

#### Activating a call on hold

- ▶ Select the contact of the call on hold.

#### Conducting a conference call

- ▶ Select  **Conference**.  
The new participant is included in the conference call.

### Ending an active call

- ▶ Select  **End call**.

- ⓘ On some mobile phones, the call on hold is activated as soon as the active call is ended.

### ■ Accepting or rejecting a waiting call

#### Requirements

- There is an active call (→ page 416).

If you receive a call while already in a call, a message is displayed.

Depending on the mobile phone and mobile phone network provider you will hear a call waiting signal.

If several mobile phones are connected, you will hear an acoustic signal when the call goes through to the other (not yet active) mobile phone.

- ▶ Select  **Accept**.  
The incoming call is active.

If only one mobile phone is connected with the multimedia system, the previous call will be put on hold.


If several mobile phones are connected and during a call you accept a call with the other mobile phone then the existing call is ended.

or

- ▶ Select **Reply**.  
The incoming call is not accepted.  
You answer with a message.

or

- ▶ Select  **Reject**.

 This function and behaviour depends on your mobile phone network provider and the mobile phone (see the manufacturer's operating instructions).

### International calls overview

Depending on your mobile phone network provider, you may have to use an international dialling code before you make an international call.


The international dialling code varies depending on the mobile phone network provider. You can contact your mobile phone network provider to obtain the dialling code.

### Setting the international dialling code

Multimedia system:

 ▶▶ **Phone** ▶▶  ▶▶ **General**


▶▶ **International dialling code**

- ▶ Select **Modify**.
  - ▶ Enter numbers.
  - ▶ Select .
- Numbers in the phone book beginning with a "+", are extended with the international dialling code set when placing a call.

### Using the international dialling code

Multimedia system:

 ▶▶ **Phone** ▶▶ 

- ▶ Press and "0" until a "+" appears in the selection field.
  - ▶ Enter the numbers of the country code, regional code and the telephone number.
  - ▶ Select .
- The call is made.

## Contacts

### Information about the contacts menu

The contacts menu contains all contacts from existing data sources, e.g. mobile phone or data storage medium.

Depending on the data source, it is possible to save/load the following number of contacts:

- Permanently saved contacts: 3,000 entries
- Contacts loaded from the mobile phone: 5,000 entries per mobile phone

From the contacts menu, you can perform the following actions:

- Make a call, for example call a contact (→ page 419)
- Navigation (→ page 379)
- Compose messages (→ page 421)
- Additional options (→ page 420)

Mobile phone contacts are automatically displayed when a mobile phone is connected to the multimedia system (→ page 414).

### Downloading mobile phone favourite contacts

If the mobile phone supports the function, the favourites of the mobile phone are automatically loaded and appear in the overview of the phone menu.

### Calling up contacts

Multimedia system:

 **Phone** **Contacts**

The following options can be used to search for contacts:

- Searching by initials
- Searching by name
- Searching by phone number

- ▶ Enter characters into the search field.
- ▶ Select the contact.

A contact can contain the following details:

- Phone numbers
- Navigation addresses
- Internet address
- Email addresses
- Relationship (if set)

### Managing the format of a contact's name


Multimedia system:

 **Phone** 

- ▶ Select **Name format**.
- ▶ Select an option.

### Overview of importing contacts

Importing contacts into the contacts menu

Source	Requirements
 USB device	The USB device is connected with the USB port.
Mobile phone	A mobile phone is connected to the multimedia system via Bluetooth®. Contacts are available.

- ⓘ Note that the imported contacts remain in the vehicle and can be accessed at any time regardless of the connected mobile phones.

### Importing contacts into the contacts menu

Multimedia system:

 **Phone**  **Contacts**



**Import contacts**

- ▶ Select a mobile phone **<device name>**, from which the contacts should be imported.
- ▶ Select an option.

### Saving a mobile phone contact

Multimedia system:

 **Phone** **Contacts**

- ▶ Select  in the line of the mobile phone contact.
- ▶ Select .
- ▶ Select **Save**.
- ▶ Select **Yes**.  
The contact saved in the multimedia system is identified by the MBUX symbol.

### Calling a contact

Multimedia system:

 **Phone** **Contacts**



- ▶ Select  **Search contacts** .

- ▶ Enter characters into the search field.
- ▶ Select the contact.
- ▶ Select the telephone number.  
The number is dialled.

### Selecting further options in the contacts menu

Multimedia system:

→  ▶▶ Phone ▶▶ Contacts

- ▶ Select  in the line of the contact.
- ▶ Select .
- ▶ Select an option.

### Deleting contacts

#### Requirements:

- The contacts are saved in the vehicle.
- To delete an individual contact, this has been imported manually into the vehicle.

Multimedia system:



→  ▶▶ Phone

#### Deleting all contacts

- ▶ Select .

- ▶ Select **Contacts**.
- ▶ Select **Delete all MBUX contacts**.
- ▶ Select an option.

#### Deleting a contact

- ▶ Select **Contacts**.
- ▶ Select  in the line of the contact.
- ▶ Select .
- ▶ Select **Delete contact**.
- ▶ Select **Yes**.

### Call list

#### Overview of the call list

Depending on whether your mobile phone supports the PBAP Bluetooth® profile or not, this can have different effects on the presentation and functions of the call list.

If the PBAP Bluetooth® profile is supported, the effects are as follows:

- The call lists from the mobile phone are displayed in the multimedia system.

- When connecting the mobile phone, you may have to confirm the connection for the PBAP Bluetooth® profile.


If the PBAP Bluetooth® profile is not supported, the effects are as follows:

- The multimedia system generates a call list independently as soon as calls are made in the vehicle.
- The call list is not synchronised with the call lists in the mobile phone.

#### Making a call from the call list

Multimedia system:

→  ▶▶ Phone

- ▶ Select  **Call list**.
- ▶ Select an entry.  
The call is made.


#### Selecting additional options in the call list

Multimedia system:

→  ▶▶ Phone

- ▶ Select  **Call list**.



- ▶ For contacts that are in the address book: select options.  
The contact details are called up.
- ▶ For contacts where only one number is shown (not in the address book): select .

### Deleting the call list

Multimedia system:

- ▶  ▶ Phone ▶ <device name>
- ▶  ▶ Devices

- ▶ Select **Delete call list**.
- ▶ Select **Yes**.

- ⓘ This function is only available if your mobile does not support the PBAP Bluetooth® profile.

## Text messages

### Overview of message functions

In the message menu you can receive text messages and Apple iMessages and create and send them with the help of the MBUX Voice Assistant.

If the connected mobile phone supports the Bluetooth® MAP profile, the message function can be used on the multimedia system.

You can obtain further information about settings and supported functions of Bluetooth®-capable mobile phones at a Mercedes-Benz service centre or at: <https://www.mercedes-benz-mobile.com/>  
Some mobile phones require further settings after being connected to the multimedia system to activate the messaging functionality (see manufacturer's operating instructions).

### Setting message displays



Multimedia system:

- ▶  ▶ Phone ▶ <device name>
- ▶  ▶ Devices

- ▶ Select **Message display**.
- ▶ Select **On** or **Off**.


### Reading messages

Multimedia system:

- ▶  ▶ Phone ▶ <device name>
- ▶ 

### Using the read-aloud function

A message list is shown.



- ▶ To read aloud, select the  symbol at a conversation.  
The message is read aloud.

### Creating and sending a new message

#### Requirements:

- There is an Internet connection.

Multimedia system:

- ▶  ▶ Phone ▶ <device name>
- ▶ 



- ▶ Using the MBUX voice assistant, speak the voice command **Send a message to**, and name the desired contact (→ page 316).

### Dictating text



- ▶ Say the message.  
You are guided by the voice dialogue.

### Replying to a message in the messaging history

Multimedia system:


- ▶  ▶ Phone ▶ <device name>
- ▶ 

A message list is shown.

- ▶ Select  next to a contact. The messaging history with this contact is shown. You will be guided through the steps with the help of a voice dialogue.
- ▶ Select . The dictation function is started.
- ▶ Say the message. After the voice message has been processed, it is shown as text.
- ▶ Select **Send** or speak in the dialogue.

### ■ Forwarding messages

Multimedia system:

- ▶   ▶▶ **Phone** ▶▶ <device name>
- ▶▶ 

A message list is shown.



- ▶ Speak the voice command **Forward message**. You are guided by the voice dialogue.

### ■ Calling a message sender

Multimedia system:

- ▶   ▶▶ **Phone** ▶▶ <device name>
- ▶▶ 

A message list is shown.

- ▶ Select  next to a contact. The messaging history with this contact is shown.
- ▶ Select .
- ▶ Select **Call**.

### ■ Using telephone numbers, URLs or email addresses from a text message


#### Requirements

- An Internet connection is available to call up a URL.

Multimedia system:

- ▶   ▶▶ **Phone** ▶▶ <Device name>
- ▶▶ 

A message list is shown.



- ▶ Select  next to a contact. The messaging history with this contact is shown.
- ▶ Select a telephone number or a URL in the message. If a URL is selected the web browser opens.

If a telephone number is selected the following options are available:

- **Call**
  - **New message**
- ▶ Select an option.

### ■ Deleting a message

Multimedia system:

- ▶   ▶▶ **Phone** ▶▶ <device name>
- ▶▶ 

A message list is shown.

- ▶ Select a contact.
- ▶ Press and hold on a message.
- ▶ **To delete the message:** select **Delete**.

## In-Car Calendar

### ■ In-Car Calendar functions

Using In-Car Calendar, you can connect your online services to the multimedia system.

The following functions are available to you:

- **Calendar**

Showing appointments and triggering actions, e.g. reading aloud, placing a call, navigating

- ❶ Notifications or reminders from In-Car Calendar, such as appointments are shown in the zero layer (→ page 325).
- ❷ Please note that certain functions are only available when the vehicle is stationary.

## ■ Calling up In-Car Calendar

### Requirements

- You have a Mercedes me user account.
- The In-Car Calendar service is activated in your Mercedes me user account.
- You have a user account with an online service, for example Office 365.

In this way, appointments, e-mails and tasks can be synchronised and facilitated.

Multimedia system:



- ▶ Select **In-Car Calendar**.

Individual functions from In-Car Calendar can be called up.

### Linking a user account

- ▶ Select the desired online service.
- ▶ Scan the QR code.
- ▶ Follow the instructions on the device.

### ■ Selecting calendar functions in In-Car Calendar

Multimedia system:



- ▶ Select an appointment.
- ▶ Select a function.  
The following functions are available:



**Read aloud**



**Call**



**Navigate**



**Delete**

- ❶ Functions are available if corresponding appointment information is saved.

Examples of this are:

- If a telephone number has been saved for the appointment, **Call** is available.

- If a navigable address has been saved in the Online Account for the appointment, **Navigate** is available.

## Apple CarPlay®


### ■ Overview of Apple CarPlay®



**⚠ WARNING** Risk of distraction from information systems and communications equipment

If you operate information systems and communication devices integrated in the vehicle when driving, you could be distracted from the traffic situation. This could also cause you to lose control of the vehicle.

- ▶ Only operate this equipment when the traffic situation permits.
- ▶ If you cannot be sure of this, stop the vehicle whilst paying attention to road and traffic conditions and operate the equipment with the vehicle stationary.

You must observe the legal requirements for the country in which you are currently driving when operating the multimedia system.

iPhone® functions can be used via the multimedia system using Apple CarPlay®. They are operated using the touchscreen, Touch Control or the Siri® voice control system. You can activate the voice control system by pressing and holding the  button on the multifunction steering wheel.

 By briefly pressing the  button on the multifunction steering wheel you can continue to operate the multimedia system using the MBUX voice assistant (→ page 316).

Only one iPhone® at a time can be connected via Apple CarPlay® with the multimedia system.

As access to the iPhone® is restricted by MBUX when a CarPlay® session is active, not all MBUX functions (e.g. dialling from the address book) can be fully provided for the connected device. In this case use Apple CarPlay®.

The full range of functions for Apple CarPlay® is only available with an Internet connection.

The availability of Apple CarPlay® may vary according to the country.

The service provider is responsible for this application and the services and content connected to it.

Apple CarPlay® is a registered trademark of Apple Inc.

You can watch an animation on this topic via the following link:

### ■ Information on Apple CarPlay®


The Apple CarPlay® symbol in the status line switches within Apple CarPlay® to the last active display.

If route guidance is active on the multimedia system, it is closed when route guidance is started on the mobile phone.

### ■ Connecting an iPhone® via Apple CarPlay® (wired)

#### Requirements

- The current version of your device's operating system is being used (see the manufacturer's operating instructions).

 For safety reasons, the first activation of Apple CarPlay® on the multimedia system must be carried out when the vehicle is stationary and the parking brake applied.

▶ Connect the iPhone® to a USB port on the multimedia system using a suitable cable (→ page 456).


When the application is connected for the first time, a message about data protection regulations appears.

▶ Select **Accept & start** if the application should be started.

or

▶ Open the device manager (→ page 415).

▶ Start Apple CarPlay® using the relevant symbol next to the device name.


 If applicable, a message about data protection regulations appears.

▶ If required confirm the use of Apple CarPlay® on your iPhone®.

#### Exiting Apple CarPlay®

▶ Select .

or

- ▶ Press the  button on the multifunction steering wheel (MBUX multimedia system).
- ❗ If Apple CarPlay® was not displayed in the foreground before disconnecting, the application starts in the background when reconnected. You can call up Apple CarPlay® using the Apple CarPlay® symbol in the status line.

### ■ Connecting an iPhone® via Apple CarPlay® (wireless)

#### Requirements

- The current version of your device's operating system is being used (see the manufacturer's operating instructions).
- Bluetooth® is activated on the device (see the manufacturer's operating instructions).
- The device is "visible" for other devices.
- ❗ For safety reasons, the first activation of Apple CarPlay® on the multimedia system must be carried out when the vehicle is stationary and the parking brake applied.

Multimedia system:


↳  ▶▶ Phone ▶▶  ▶▶ Devices

- ▶ Connect the mobile phone using Bluetooth® (→ page 414). When the application is connected for the first time, a message about data protection regulations appears.
- ▶ Select **Accept & start Apple CarPlay** if the application should be started.
- ▶ If required confirm the use of Apple CarPlay® on your iPhone®.
- ❗ It is possible at any time to switch between connection via Bluetooth® or Apple CarPlay® (wireless) in the device list.
- ❗ If you have already connected a mobile phone via Bluetooth®, you can connect another iPhone® via Bluetooth® to use Apple CarPlay® via the device manager.

#### Exiting Apple CarPlay®

- ▶ Select .

or

- ▶ Press the  button on the Touch Control (MBUX multimedia system).

- ❗ If Apple CarPlay® was not displayed in the foreground before disconnecting, the application starts in the background when reconnected. You can call up Apple CarPlay® using the Apple CarPlay® symbol in the status line.

### ■ Calling up Apple CarPlay® sound settings

Multimedia system:

↳  ▶▶ Settings ▶▶ System ▶▶ Audio

- ▶ Select the sound settings.

### ■ Ending Apple CarPlay®

- ▶ Select the Apple CarPlay® symbol in the device manager (telephone, media) that is next to the device name of the iPhone®.
- ❗ Select the Apple CarPlay® symbol in the device manager in the telephone or media applications if Apple CarPlay® should be restarted.

- i** If Apple CarPlay® was not displayed in the foreground before disconnecting, the application starts in the background the next time it is started automatically. You can call up Apple CarPlay® using the relevant symbol in the status line.

## Android Auto


### ■ Android Auto overview


**⚠ WARNING** Risk of distraction from information systems and communications equipment

If you operate information systems and communication devices integrated in the vehicle when driving, you could be distracted from the traffic situation. This could also cause you to lose control of the vehicle.

- ▶ Only operate this equipment when the traffic situation permits.
- ▶ If you cannot be sure of this, stop the vehicle whilst paying attention to road

and traffic conditions and operate the equipment with the vehicle stationary.

You must observe the legal requirements for the country in which you are currently driving when operating the multimedia system. Mobile phone functions can be used with Android Auto using the Android operating system on the multimedia system. It is operated using the touchscreen, Touch Control or voice control. You can activate the voice control system by pressing and holding the  button on the multifunction steering wheel.

- i** By briefly pressing the  button on the multifunction steering wheel you can continue to operate the multimedia system using the MBUX voice assistant (→ page 316).

Only one mobile phone at a time can be connected via Android Auto with the multimedia system. The full range of functions for Android Auto is only possible with an Internet connection. The availability of Android Auto and Android Auto apps may vary according to the country.

The service provider is responsible for this application and the services and content connected to it.

You can watch an animation on this topic via the following link:

### ■ Information on Android Auto

The Android Auto symbol in the status line switches within Android Auto to the last active display.

If route guidance is active on the multimedia system, it is closed when route guidance is started on the mobile phone.

### ■ Connecting a mobile phone via Android Auto (wired)

#### Requirements

- The mobile phone supports Android Auto from Android 5.0.
- The current version of the Android Auto app is installed on the mobile phone.
- In order to use the telephone functions, the mobile phone must be connected to the multimedia system via Bluetooth® (→ page 414).

If there was no prior Internet connection, this is established with the use of the mobile phone with Android Auto.

- ❗ For safety reasons, the first activation of Android Auto on the multimedia system must be carried out when the vehicle is stationary with the parking brake.

- ▶ Connect the mobile phone to a USB port on the multimedia system using a suitable cable (→ page 456).

When the application is connected for the first time, a message about data protection regulations appears.

- ▶ Select **Accept & start** if the application should be started.


or

- ▶ Open the device manager (→ page 415).
- ▶ Start Android Auto using the relevant symbol next to the device name.

### Exiting Android Auto

- ▶ Select .

or

- ▶ Press the  button on the Touch Control (MBUX multimedia system).

- ❗ If Android Auto was not displayed in the foreground before disconnecting, the application starts in the background when reconnected. You can call up Android Auto using the Android Auto symbol in the status line.

### Connecting a mobile phone via Android Auto (wireless)

#### Requirements

- The current version of your device's operating system is being used (see the manufacturer's operating instructions).
- The device supports the Android Auto function (wireless).
- Bluetooth® is activated on the device (see the manufacturer's operating instructions).
- The device is "visible" for other devices.
- Bluetooth® is activated on the multimedia system (→ page 356).

- ❗ For safety reasons, the first activation of Android Auto on the multimedia system must

be carried out when the vehicle is stationary with the parking brake.

- ❗ The Android Auto function (wireless) is not available in all countries.

Multimedia system:

  **▶▶ Phone**  **▶▶ Devices**

- ▶ Connect the mobile phone using Bluetooth® (→ page 414).

- ❗ Depending on the device configuration, the query whether Android Auto should be started may appear on the central display after connecting the mobile phone via Bluetooth®. In this case, the query must be answered with **Yes**.

- ▶ Select **Start Android Auto**.

When the application is connected for the first time, a message about data protection regulations appears.

- ▶ Select **Accept & start**.


- ❗ It is possible at any time to switch between connection via Bluetooth® or Android Auto (wireless) in the device list.

- ❗ If you have already connected a mobile phone via Bluetooth®, you can connect additional mobile phones via Bluetooth® to use Android Auto via the device manager.

### Exiting Android Auto

▶ Select .

or

▶ Press the  button on the Touch Control (MBUX multimedia system).

- ❗ If Android Auto was not displayed in the foreground before disconnecting, the application starts in the background when reconnected. You can call up Android Auto using the Android Auto symbol in the status line.

### Calling up the Android Auto sound settings

Multimedia system:

➔  ▶ Settings ▶ System ▶ Audio

▶ Select the sound settings.

### Ending Android Auto

▶ Select the Android Auto symbol in the device manager (telephone, media) that is next to the device name of the mobile phone.

- ❗ Select the Android Auto symbol in the device manager if Android Auto should be restarted.
- ❗ If Android Auto was not displayed in the foreground before disconnecting, the application starts in the background the next time it is started automatically. You can call up Android Auto using the Android Auto symbol in the status line.

### Transferred vehicle data with Android Auto and Apple CarPlay®

#### Overview of transferred vehicle data

When using Smartphone Integration, certain vehicle data is transferred to the mobile phone. This enables you to get the best out of selected mobile phone services. Vehicle data is not directly accessible.

The following system information is transmitted:

- Software release of the multimedia system
- System ID (anonymised)

The transfer of this data is used to optimise communication between the vehicle and the mobile phone.

To do this, and to assign several vehicles to the mobile phone, a vehicle identifier is randomly generated.

This has no connection to the vehicle identification number (VIN) and is deleted when the multimedia system is reset (→ page 362).

The following driving status data is transmitted:

- Transmission position engaged
- Distinction between parked, standstill, rolling and driving
- Day/night mode of the driver's display
- Drive type

The transfer of this data is used to alter how content is displayed to correspond to the driving situation.

The following position data is transmitted:

- Coordinates
- Speed
- Compass direction
- Acceleration direction

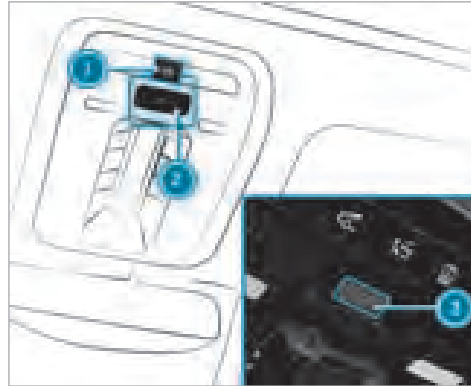


This data is used by the mobile phone to improve the accuracy of the navigation (e.g. for continuation in a tunnel).

## Mercedes me calls

### Making a call via the overhead control panel

- ① Mercedes me calls are not possible in every country. Find out at a Mercedes-Benz service centre if these functions are available in your country.



- ① me button for service or information calls
- ② SOS button cover
- ③ SOS button (emergency call system)

### Making a Mercedes me call

- ▶ Press me button ①.

### Making an emergency call

- ▶ To open the cover of SOS button ②, press it briefly.
- ▶ Press and hold SOS button ③ for at least one second.

If a Mercedes me call is active, an emergency call can still be triggered. This has priority over all other active calls.

### Information about the Mercedes me call using the me button

A call to the Mercedes-Benz Customer Centre has been initiated via the me button in the overhead control panel or the multimedia system (→ page 429).

Using the voice dialogue system you access the desired service:

- Accident and Breakdown Management
- Mercedes-Benz Customer Centre for general information about the vehicle

You can find information on the following topics:

- Activation of Mercedes me connect
- Operating the vehicle

- Nearest Mercedes-Benz service centre
- Other products and services from Mercedes-Benz

Data is transferred during the connection to the Mercedes-Benz Customer Centre (→ page 432).

### ■ Calling the Mercedes-Benz Customer Centre using the multimedia system

#### Requirements:

- Access to a GSM network is available.
- The contract partner's GSM network coverage is available in the respective region.
- The vehicle must be switched on so that vehicle data can be transferred automatically.

Multimedia system:



#### ▶ Call Mercedes me connect.

After confirmation, the multimedia system sends the required vehicle data. The data transfer is shown in the display.

Then you can select a service and be connected to a specialist at the Mercedes-Benz Customer Centre.

### ■ Calling the Mercedes-Benz Customer Centre after automatic accident or breakdown detection

#### Requirements:

- The vehicle has detected an accident or breakdown situation.
  - The vehicle is stationary.
  - The hazard warning lights are switched on.
- i** This function is not available in all countries.

The vehicle can detect accident or breakdown situations under certain circumstances.

#### Requirements for collision detection in the context of accident management:

- The vehicle is equipped with an anti-theft alarm system (ATA) (code 551).
- The vehicle is equipped with the interior protection (code 882).
- The vehicle is equipped with the Anti-Theft Protection Package (code P54).

- The collision detection service with theft notification has been activated on Mercedes me connect.

If a collision is detected when the tow-away protection is primed on a locked vehicle, you will receive a notification in the multimedia system when you switch the vehicle on.

Find out at a Mercedes-Benz service centre if this function is available in your country.

In the event an accident or breakdown is detected, the emergency guide shows safety notes in the multimedia system display. This may take a few seconds.

- i** The availability of collision detection depends on the vehicle.

After quitting the emergency guide display on the multimedia system, a prompt appears asking whether you would like to get support from the Mercedes-Benz Customer Centre.

#### ▶ Select Call.

- After your agreement, or if the Mercedes me connect service "Accident and Breakdown Management" is active, the vehicle

data is transferred automatically (→ page 434).

- The Mercedes-Benz Customer Centre takes your call and organises the breakdown and accident assistance.

You may be charged for these services.

**i** Depending on the severity of the accident, an automatic emergency call can be initiated. This has priority over all other active calls (→ page 440).

- i** In addition, if the Mercedes me connect service "Telediagnosics" is active, a similar prompt can appear after a delay in the event of a breakdown. If you are already in contact with the Mercedes-Benz Customer Centre or have already received support, this prompt can be ignored or declined.
- i** If you answer the prompt for support from the Mercedes-Benz Customer Centre with **Call later**, the message will be hidden and appear again later. The prompt triggered by the Mercedes me connect service "Telediagnosics", can either

be confirmed or declined. After being declined, this will not be shown again.

### ■ Arranging a service appointment via a Mercedes me call

If you have activated the maintenance management service, relevant vehicle data is transferred automatically to the Mercedes-Benz Customer Centre. You will then receive individual recommendations regarding the maintenance of your vehicle.

Regardless of whether you have consented to the maintenance management service, the multimedia system reminds you after a certain amount of time that a service is due. A prompt appears asking if you would like to make an appointment.

▶ **To arrange a service appointment:** select **Call**. After your agreement, the vehicle data is transferred and the Mercedes-Benz customer centre takes your preferred appointment date. The information is then sent to your desired service outlet.

This will contact you to confirm the appointment and if necessary consult about the details.

- i** If you select **Call later** after the service message appears, the message is hidden and reappears at a later time.

### ■ Giving consent to data transfer during a Mercedes me call

#### Requirements

- There is an active Mercedes me call via the multimedia system or the me button in the overhead control panel (→ page 429).
- i** The prompt to confirm data transfer does not appear in all countries.

If the Accident and Breakdown Management services are not activated on Mercedes me, the **Do you want to transfer your vehicle data and the vehicle's position to the Mercedes-Benz Customer Centre to improve the processing of your request?** message is shown.

- i** The exact phrase may differ depending on the multimedia system installed.

▶ **Select Yes.**

- The relevant vehicle data is sent automatically (→ page 432).

or

▶ Select **No** and confirm.

- Only call control data is transmitted (→ page 432).

More information on Mercedes me: <https://www.mercedes.me>

### ■ Data transferred during a Mercedes me call

If you initiate a service call using Mercedes me, data is transferred to enable targeted advice and an efficient service.

The following requirements must be fulfilled for the transfer of the data:

- The vehicle is switched on.
- The required data transfer technology is supported by the mobile phone network provider.
- The quality of the mobile connection is sufficient.

Multi-stage transfer depends on the following factors:

- Reason for the initiation of the call
- The available mobile phone transmission technology

- The activated Mercedes me connect services
- The service selected in the voice control system

**i** A prompt for consent to the data transfer only occurs if the corresponding Mercedes me connect service is not activated.

**i** The scope of the data transmitted depends on the vehicle model and equipment. For technical reasons, not all data is available at all times.

### Data transfer if Mercedes me connect services are not activated

If no Mercedes me connect services are activated and the data protection prompt has been confirmed the following data is transmitted:

- Vehicle identification number
- Time of the call
- Reason for the initiation of the call
- Confirmation of the data protection prompt
- Country indicator of the vehicle
- Set language for the multimedia system

- Telephone number of the communication platform installed in the vehicle

If a call is made for a service appointment via the service reminder, the following data is also transmitted:

- Current mileage and maintenance data

If a call is made after automatic accident or breakdown detection using the multimedia system, the following data is also transmitted:

- Current mileage and maintenance data
- Current vehicle location

If Accident and Breakdown Management is called via the voice control system and no service has been activated, but the data protection query has been confirmed, the following data can also be called up from the vehicle by the Mercedes-Benz Customer Centre:

- Current vehicle location

If the data protection prompt has been rejected, the following data is transmitted to enable targeted advice and an efficient service:

- Vehicle identification number

- Time of the call
- Reason for the initiation of the call
- Rejection of the data protection prompt
- Country indicator of the vehicle
- Set language for the multimedia system
- Telephone number of the communication platform installed in the vehicle

#### Data transfer if Mercedes me connect services are activated

Only if the respective service is activated will additional incident-specific data be transmitted in the second stage to enable an optimal service.

An overview of the data transferred is contained in the data protection information for the Mercedes me connect services. You can find these in your Mercedes me user account.

#### Data processing

The data transmitted within the scope of the call is deleted from the processing system after the call is finished, in so far as this data is not being used for other activated Mercedes me connect services.

The incident-specific data is processed and stored in the Mercedes-Benz Customer Centre and, if required to process the incident, forwarded to the service partner authorised by the Mercedes-Benz Customer Centre. Take note of the data protection information on the Mercedes me Internet page <https://www.mercedes.me> or in the recorded message immediately after calling the Mercedes-Benz Customer Centre.

- ❗ The recorded message is not available in every country.

#### Mercedes me connect

##### Information on Mercedes me connect

- ❗ Mercedes me connect or individual Mercedes me connect services are not available in every country. Find out at a Mercedes-Benz service centre if these functions are available in your country.

Mercedes me connect consists of multiple services.

You can use the following services via the multimedia system and the overhead control panel, for example:

- Accident and Breakdown Management (me button or situation-dependent display in the multimedia system)
- Mercedes-Benz Emergency Call System (automatic emergency call and SOS button)

The Mercedes me connect Accident and Breakdown Management and the Mercedes-Benz emergency call centre are available to you around the clock.

The me button and the SOS button can be found on the vehicle's overhead control panel (→ page 429).

You can also call the Mercedes-Benz Customer Centre using the multimedia system (→ page 430).

Please note that Mercedes me connect is a Mercedes-Benz service. In emergencies, first call the national emergency services using the standard national emergency service telephone numbers. In emergencies, you can also use the

Mercedes-Benz emergency call system (→ page 440).

Please note the Mercedes me connect terms of use and the data protection information for Mercedes me connect. You can find these in your Mercedes me user account.

### Information on Mercedes me connect Accident and Breakdown Management

**i** Accident and Breakdown Management is not available in every country. Contact a Mercedes-Benz service centre to find out whether this function is available in your country.

The Accident and Breakdown Management can include the following functions:

- Supplement to the Mercedes-Benz emergency call system (→ page 440)

If necessary, the contact person at the Mercedes-Benz emergency call centre forwards the call to Mercedes me connect Accident and Breakdown Management. Forwarding the call is however not possible in all countries.

- Breakdown assistance by a technician on location and/or the towing away of the vehicle to the nearest Mercedes-Benz service centre  
You may be charged for these services.
- Addition to the emergency guide after automatic accident or breakdown detection (→ page 430)

In the event of a breakdown or accident, further vehicle data is sent which enables optimal support by the Mercedes-Benz Customer Centre and the authorised service partner or breakdown assistance.

- Addition to the Mercedes me connect service Telediagnosics

With the Telediagnosics function, specific wear and failure reports are recorded by the service provider, in so far as these can be clearly interpreted and are available through the monitoring of components that are subject to diagnostics.

If your vehicle detects a breakdown or threat of a breakdown, you may be prompted via the multimedia system to contact the Mercedes-Benz Customer Centre for further help. This

prompt in the multimedia system only appears when the vehicle is stationary.

- i** These services are subject to technical restrictions such as the mobile phone coverage, mobile network quality and the ability of the processing systems to interpret the transferred data. In some circumstances, this can result in delays or the failure of the information to appear in the multimedia system.

Please note that the service and breakdown call is a Mercedes-Benz service. In emergencies, be sure to contact the usual national emergency number first or use the Mercedes-Benz emergency call system (→ page 438).

More information about Mercedes me connect services can be obtained in the Mercedes me Portal: <https://me.secure.mercedes-benz.com>

### Data transferred during Mercedes me connect call services

The data transferred during a Mercedes me connect call depends on:

- The reason for initiation of the call

- The service that is selected in the voice control system
- The activated Mercedes me connect services

You can find out which data is transferred when using the services in the currently valid Mercedes me connect terms of use and the data protection information for Mercedes me connect. You can find these in your Mercedes me user account.

## Mercedes me Apps

### Information about Mercedes me

With a Mercedes me user account you have access to Mercedes-Benz services and offers.

Availability is dependent both on the country and equipment.

You can obtain further information at a Mercedes-Benz service centre or in the Mercedes me Portal: <https://me.secure.mercedes-benz.com>

Further information about on-demand features via Mercedes me can be found in the "General notes" section (→ page 25).

- ⓘ Make sure you always keep the Mercedes me apps updated.

### Calling up the Mercedes me user account


Multimedia system:

→  >> Apps >> Mercedes me

#### Vehicle is linked to user account and Mercedes me is available

- ▶ Select **Mercedes me ID**.  
Information about the linked user account appears.

#### Your vehicle is not linked to the user account

- ⓘ If you do not yet have a Mercedes me user account, you can create one at: <https://www.mercedes.me> or in the Mercedes me App. A valid email address or phone number is required for this.
- ▶ Select .
- ▶ Select **Apps**.
- ▶ Select **Mercedes me**.
- ▶ Follow the instructions on the display to link the user account with the vehicle.

- ⓘ If the Mercedes me App is available on a mobile phone, the vehicle connection can be accomplished using the QR code shown.

### Calling up the Mercedes me services

#### Requirements:

- The vehicle is connected with the user account.


Multimedia system:

→  >> Apps >> Mercedes me

- ▶ Select **My services**.  
The Mercedes me connect services for which you have a valid licence are displayed in alphabetical order.

#### Ordering or extending Mercedes me connect services

To order or renew Mercedes me connect services, use the Store.

- ▶ Select .
- ▶ Select **Store**.

## Deleting a connection between a user account and the vehicle

### Requirements

- The user profile of the user account that was first linked to the vehicle is selected.
- The user profile is synchronised (→ page 339).
- A Mercedes me PIN has been set.

Multimedia system:

→  **Apps** **Mercedes me**

▶ Select **Mercedes me ID**.

▶ Select **Delete vehicle connection**.

- i** Only the user, whose user account was first connected with the vehicle can delete the connection between all user accounts and the vehicle.

## Selecting apps

### Requirements:

- Depending on the app, the general terms and conditions are confirmed.

Multimedia system:

→  **Apps**

▶ Select an app.

The following apps are available, for example:

- **Weather**
- **Browser**
- Additional apps, which are purchased or installed subsequently

**i** You can also access both of the first two apps via the quick access at **Apps**.

**i** The available features are country-dependent. Licence fees may be applicable.

The following functions are available for apps, for example:

- Search function
- Filter function, for displaying search results at the current vehicle position or at the destination
- Display of detailed information
- Read-aloud function
- Setting functions

## Using the Gallery app

### Requirements

- **For the use of the share content function:**

- The Mercedes me App is installed on the device, e.g. a mobile phone or a tablet.
- For Internet connection, the multimedia system is used as a WLAN hotspot (→ page 357).

Multimedia system:

→  **Apps**

▶ Select **Gallery**.

Images and video recordings are displayed from the following sources, for example:


- Dashcam video recordings
- Collision detection images
- Video recordings and images from other available sources
- Camera app
- Favourites

▶ Select a tab.






- ❗ The Gallery app is also available on the front passenger display.

### Filtering displays

- ▶ Select .
- ▶ Select an option.  
All files, all images or all video recordings are displayed.

### Playing back a video recording

- ▶ Select .  
Playback starts.
- ▶ **To continue playback in full screen mode:** tap on the display.
- ▶ **To pause playback:** select .
- ▶ **To continue playback from the desired position:** move the position  on the timeline by sliding it.
- ▶ **To select the previous or next video recording:** swipe to the right or left.

### Scrolling and zooming images



- ▶ **To scroll:** swipe on the image in one direction.

- ▶ **To zoom:** tap twice in quick succession on an image.
- ▶ **To select the previous or next image:** swipe to the right or left.




### Adding or removing a file from the favourites


- ▶ Press and hold on a file.
- ▶ Select **Add to favourites/Remove from favourites**.  
A corresponding message appears.

### Switching write protection on or off

- ❗ Active write protection is not supported by every app.
- ▶ Press and hold on a file.
- ▶ Activate  or deactivate  **Write protection**.

### Deleting files

- ▶ Select .
- ▶ **To delete a single file:** tap on a file.  will appear.
- ▶ **To delete all files:** tap on .



- ▶ **To delete:** select .  
A prompt appears.
- ▶ Select **Yes**.

- ❗ A single file can be deleted even after a long press on the file.

### Connecting the device to the MBUX multimedia system to use the share content function

- ▶ Select the share function in the Mercedes me App on the device.  
A QR code is displayed on the MBUX multimedia system.
- ▶ Scan the QR code with the device.  
A numerical code is displayed on the MBUX multimedia system.
- ▶ Enter the numerical code on the device.  
The connection is established and the device is available in the vehicle.

### Sharing content with a connected device

- ▶ Select .
- ▶ Choose the content that you wish to share.  
The content is marked with a tick.
- ▶ Select .

- ▶ Select the device to which the content is to be transferred.  
The transferred content is stored in the Mercedes me App, not in the memory of the device.

### Mercedes-Benz emergency call system

#### ■ Information on available emergency call systems

Two types of emergency call system are available to you in the vehicle:

- Mercedes-Benz emergency call system

- 112 emergency call system (EU eCall)

The Mercedes-Benz Emergency Call System is not available in all countries. You can find more information on the regional availability of the Mercedes-Benz emergency call system at: <https://www.mercedes-benz-mobile.com/extra/ecall/>

The following applies for both emergency call systems:

- The transfer of specific data is required for the intended function of both emergency call systems. This will be explained in the "Data transfer" section (→ page 441).

- Both emergency call systems are included as standard equipment in your vehicle and are activated at the factory.
- The use of both emergency call systems is exempt from charges.
- Both emergency call systems only function in areas in which the mobile phone network providers offer mobile phone coverage.  
For both systems, insufficient network coverage from the mobile phone network providers can result in an emergency call not being transmitted.

## Differences between the Mercedes-Benz emergency call system and the 112 emergency call system (EU eCall)

Mercedes-Benz emergency call system	112 emergency call system (EU eCall)
<ul style="list-style-type: none"> <li>The Mercedes-Benz emergency call system is permanently logged in to the mobile phone network.</li> <li>Automatic and manual Mercedes-Benz emergency calls are transmitted to a Mercedes-Benz emergency call centre.</li> </ul> <p>In the event that the emergency call centre of the Mercedes-Benz emergency call system cannot be reached (e.g. due to a lack of network coverage), the 112 emergency call is carried out automatically.</p>	<ul style="list-style-type: none"> <li>If you decide on the 112 emergency call system (EU eCall) only, then the system only logs in to the mobile phone network after the triggering of a manual or automatic emergency call.</li> <li>The 112 emergency call system (EU eCall) transmits automatic and manual emergency calls directly to public coordination centres.</li> </ul>

**i** The 112 emergency call system (EU eCall) in your vehicle meets the delegated regulation EU 2017/79. Proper and full functionality of the 112 emergency call system (EU eCall) depends on circumstances beyond the influence of Mercedes-Benz AG. This includes mobile network coverage and the technical infrastructure of the public reception centres in the respective countries.

**i** Please observe that in the event of a repair genuine Mercedes-Benz batteries must be used which have been certified pursuant to the delegated regulation EU 2017/79 (Appen-

dix I). Other manufacturers are also permitted provided their batteries are certified according to the delegated regulation EU 2017/79.

There is the option of deactivating the Mercedes-Benz emergency call system and using only the 112 emergency call system (EU eCall). Contact address for carrying out deactivation of the Mercedes-Benz emergency call system are the local dealers.

Mercedes-Benz recommends the activation of the Mercedes-Benz emergency call system for the following reasons:

- In emergency situations when abroad, you can also get support in a language you speak.
- Several transmission technologies are used to accelerate the transfer of the accident data and improve reliability of the transmission.
- The Mercedes-Benz emergency call system is permanently logged in to the mobile phone network, which ensures faster placement of

the emergency call and faster transfer of the accident data.

Measures for rescue, recovery or towing away can then be initiated quickly.

- With a Mercedes-Benz emergency call, the accident data is only transferred to the public coordination centre with the approval of the customer.

In the event of an automatically triggered emergency call in which there is no voice contact, the accident data is transmitted immediately to the public emergency call centre.

- If the Mercedes-Benz emergency call centre is not available, the 112 emergency call is carried out automatically.

### Overview of emergency call systems

Both the Mercedes-Benz emergency call system as well as the 112 emergency call system (EU eCall) can help to reduce the time between an accident and the arrival of emergency services at the site of the accident. They help locate an accident site in places that are difficult to access.

Both emergency call systems can initiate an emergency call automatically (→ page 440) or manually (→ page 441).

Only make emergency calls if you or others are in need of rescue. Do not make an emergency call in the event of a breakdown or a similar situation.


### Indicators in the displays

The following messages appear on the central display or the media display of both emergency call systems:

- **SOS NOT READY**: the vehicle is not switched on or the emergency call system is malfunctioning. This does not necessarily indicate complete failure of the emergency call system. Emergency calls can still be transmitted.

The display only refers to the vehicle and does not take account of the availability of mobile phone networks and the Mercedes-Benz emergency call centre.

The functional readiness of the emergency call system on the vehicle can be seen when the **SOS NOT READY** display disappears once the vehicle is switched on.

- : the icon appears in the display during an active emergency call.

- ❗ If there is a malfunction of the emergency call system, the loudspeakers, microphone, airbag or the SOS button, for example, are faulty.

You can recognise a fault in the emergency call system by the following displays:

- A corresponding message will also appear in the driver's display.
- The SOS button lights up red continuously.

### Triggering an automatic emergency call

#### Requirements:

- The vehicle is switched on.
- The starter battery is sufficiently charged.

Both the Mercedes-Benz emergency call system as well as the 112 emergency call system (EU eCall) automatically initiate an emergency call:

- After activation of the restraint systems such as airbags or seat belt tensioners after an accident

- After an automatically initiated emergency stop by Active Emergency Stop Assist

The emergency call has been made:

- A voice connection is established with the emergency call centre.
- A message with accident data is transmitted to the emergency call centre.

The SOS button in the overhead control panel flashes until the emergency call is finished.

If no connection can be made to the public emergency services, a corresponding message appears in the display.

- ▶ Dial the emergency number 112 or the appropriate local emergency call number on your mobile phone.

If an emergency call has been initiated:

- Remain in the vehicle if the road and traffic conditions permit you to do so until a voice connection is established with the emergency call centre.

- On the basis of the call, the emergency call centre decides whether it is necessary to call rescue teams and/or the police to the accident site.
- If no vehicle occupant answers, an ambulance is sent to the vehicle immediately.

### ■ Triggering a manual emergency call

▶ **To use the SOS button in the overhead control panel:** press the SOS button at least one second long (→ page 429).

or

▶ **To use voice control:** use the voice commands of the MBUX voice assistant (→ page 320).

The emergency call has been made:

- A voice connection is established with an emergency call centre.
- Remain in the vehicle if the road and traffic conditions permit you to do so until a voice connection is established with the emergency call centre.

- On the basis of the call, the emergency call centre decides whether it is necessary to call rescue teams and the police to the accident site.
- A message with accident data is transmitted to the emergency call centre.

If no connection can be made to the public emergency services, a corresponding message appears in the display.

- ▶ Dial the emergency number 112 or the appropriate local emergency call number on your mobile phone.


### ■ Emergency call system data transfer

For both the Mercedes-Benz emergency call system as well as the 112 emergency call system (EU eCall) data is transferred to the Mercedes-Benz emergency call centre or the public emergency services call centre.

Depending on the emergency call system (→ page 438) activated different data is transmitted to the appropriate emergency call centre.

## Transmitted data according to activated emergency call system:

Mercedes-Benz emergency call	112 emergency call
<ul style="list-style-type: none"> <li>• Position data of the vehicle</li> <li>• Position data on the route (a few 100 m before the incident)</li> <li>• Direction of travel</li> <li>• Vehicle identification number</li> <li>• Drive type of the vehicle (e.g. petrol, diesel, CNG, LPG, electric or hydrogen)</li> <li>• Number of people detected in the vehicle</li> <li>• Whether the emergency call was initiated manually or automatically</li> <li>• Time of the accident</li> <li>• Language setting on the multimedia system</li> <li>• Whether Mercedes me connect is available or not</li> </ul> <p>This is a requirement for the option of forwarding the call to the Mercedes-Benz Customer Centre if necessary.</p>	<ul style="list-style-type: none"> <li>• Position data of the vehicle</li> <li>• Position data on the route (a few 100 m before the incident)</li> <li>• Direction of travel</li> <li>• Vehicle identification number</li> <li>• Drive type of the vehicle (e.g. petrol, diesel, CNG, LPG, electric or hydrogen)</li> <li>• Number of people detected in the vehicle</li> <li>• Whether the emergency call was initiated manually or automatically</li> <li>• Time of the accident</li> </ul>

 If only the 112 emergency call system (EU eCall) is activated in the vehicle, the accident data is transmitted directly to the public emergency call centre.

For accident clarification purposes, the following measures can be taken up to an hour after the emergency call has been initiated:

- The current vehicle position can be determined.
  - A voice connection to the vehicle occupants can be established.
  - Emergency call data can be called up.
- i** For Russia: various functions, e.g. receiving traffic information, cannot be performed for up to two hours after sending an emergency call.

### ■ Self diagnosis function of the emergency call system

Your vehicle checks the functionality of the emergency call system every time the vehicle is switched on. During this time, the SOS button lights up red continuously for five seconds. In the event of a system failure, you will be informed via a text message on the driver's display and the red **SOS NOT READY** indicator on the central display or media display.

Please, make sure, that during 30 seconds after switching vehicle ON the red indicator SOS NOT READY in the upper right corner of display is switched OFF, this means the emergency call system passed diagnostics successfully.


### ■ Starting/ending ERA-GLONASS test mode

#### Requirements:

- The starter battery is sufficiently charged.
- The vehicle is switched on.
- The vehicle has been stationary for at least one minute.

**i** The test mode is currently available in the following countries, for example:

- Russia
- Belarus
- Kazakhstan
- Armenia
- Kyrgyzstan

▶ **To start the test mode:** press and hold the  button on the multifunction steering wheel for at least five seconds.

The test mode is started and automatically ends after the language test has been performed.

▶ **To stop manual test mode:** switch off the vehicle.

The test mode is ended.

### ■ Information on data processing

#### Processing of personal data via the Mercedes-Benz emergency call system

All processing of personal data via the Mercedes-Benz emergency call system corresponds with the specifications in the EU Regulation 2016/679 "on the protection of natural entities with regard to the processing of personal data (GDPR)".

The data is solely used by the Mercedes-Benz emergency call system for rescue and recovery in the event of an accident.

The owner of a vehicle, that is equipped with a Mercedes-Benz emergency call system in addition to the 112 emergency call system (EU eCall), has

the right to use the 112 emergency call system instead of the Mercedes-Benz emergency call system.

Contact address for carrying out deactivation of the Mercedes-Benz emergency call system are the local dealers.

### **Processing of personal data via the 112 emergency call system (EU eCall)**

All processing of personal data via the 112 emergency call system (EU eCall) corresponds with the specifications in the EU Regulation 2016/679 "on the protection of natural entities with regard to the processing of personal data (GDPR)" and is based particularly on the necessity of upholding the vital interests of the affected person in accordance with Article 6, Clause 1, Letter d of the GDPR.

The processing of this type of data is strictly limited to the purpose of operating the emergency calls to the standard European emergency call number 112.

### **Data recipient**

The recipients of data that is processed using the 112 emergency call system (EU eCall) are the rel-

evant emergency call inquiry terminals that are specified to first receive and handle emergency calls to the standard European emergency call number 112 by the respective country authorities in whose territory you are located.

### **Arrangements for data processing**

Both emergency call systems are designed so that the following requirements are fulfilled:

- The data contained in the system memory is not accessible outside the system prior to the initiation of an emergency call.
- Both emergency call systems cannot be traced and there is no continuous tracking in normal operation.
- The data in the system's internal memory is automatically and continuously deleted.
- The location data of the vehicle is continuously overwritten in the system's internal memory, so that no more than the last three current locations required for the normal function of the system are available.
- The record of the activity data of both emergency call systems is only kept for as long as

is required to fulfil the purpose of handling the emergency call, and under no circumstances for more than 13 hours after the time that an emergency call is initiated.

### **Rights of persons affected by the data processing**

The person affected by the data processing (the vehicle owner) has the right to access the data and if applicable can demand the correction, deletion or barring of data that affects him or her and that the processing of which does not correspond with the GDPR regulations. Each correction, deletion or barring carried out according to this regulation must be shared with the third party to which the data has been transmitted, provided this does not prove to be infeasible and does not incur disproportionate expenditure.

The person affected by the data processing has the right to complain to the appropriate data protection authority should they be of the opinion that their rights have been infringed by the processing of their personal data.

Responsible contact point for the processing of access rights: Konzernbeauftragter für den Daten-



schutz, Mercedes-Benz AG, HPC G353, D-70546 Stuttgart, Germany

## In-Car Apps



### In-Car Apps overview

You can install additional apps via the In-Car Mercedes me Store and use them in your vehicle. The available In-Car Apps cover various topics such as entertainment, news or games.

In order to install In-Car Apps you require a Mercedes me user account and the In-Car App Pass service must be activated. If you do not yet have a Mercedes me ID you have to create this and connect it with your vehicle. Make sure that the In-Car App Pass service has been activated in the Mercedes me services management for your vehicle.

If the In-Car App Pass service is not available for your vehicle or has expired, you can order or extend this via the Entertainment Package in the Mercedes me Store. The In-Car App Pass is automatically activated when the Entertainment Package is ordered. Use the In-Car App Pass to obtain

access to our ever-growing library of apps and experience additional apps in your Mercedes.

-  It is only possible to install In-Car Apps with an Internet connection.
-  The availability of In-Car Apps is country-dependent.



### Installing In-Car Apps via the In-Car Mercedes me Store




#### Requirements

- You have a Mercedes me user account.
- The vehicle is linked to a Mercedes me user account.
- You have agreed to the terms of use.
- The In-Car App Pass service is activated in the vehicle.

Multimedia system:




-  Select **Apps**.  
The available apps are displayed.
-  Select the desired app.

-  Install the app.  
The installed apps can be found on the home screen.
-  It is only possible to install In-Car Apps with an Internet connection.
-  The availability of In-Car Apps is country-dependent.


## Online and Internet functions

### Internet connection

#### **Information on connecting to the Internet**

 **WARNING** Risk of distraction from information systems and communications equipment

If you operate information systems and communication devices integrated in the vehicle when driving, you could be distracted from the traffic situation. This could also cause you to lose control of the vehicle.

-  Only operate this equipment when the traffic situation permits.

- ▶ If you cannot be sure of this, stop the vehicle whilst paying attention to road and traffic conditions and operate the equipment with the vehicle stationary.

You must observe the legal requirements for the country in which you are currently driving when operating the multimedia system.

**⚠ WARNING** Risk of accident from operating mobile communication equipment while the vehicle is in motion

Mobile communication devices distract the driver from the traffic situation. This can also cause the driver to lose control of the vehicle.

- ▶ As a driver, only operate mobile communication devices when the vehicle is stationary.
- ▶ As a vehicle occupant, use mobile communication devices only in the designated area, e.g. in the rear passenger compartment.

You must observe the legal requirements for the country in which you are currently driving when operating mobile communication equipment in the vehicle.

Depending on the vehicle's equipment and availability in the country, you can establish an Internet connection in the following ways:

- **Vehicles with a communication module:**
  - Using the communication module including data roaming (→ page 446)
  - Using Wi-Fi with a data-enabled mobile phone
- **Vehicles without a communication module:**
  - Using Wi-Fi with a data-enabled mobile phone

The Internet functions can only be used to a limited degree whilst driving.


### ■ **Setting up an Internet connection using the communication module**

#### **Requirements:**

- The vehicle is equipped with a permanently installed communication module.

- A Mercedes me user account is available.
- The vehicle is linked to a Mercedes me user account.
- The "Internet in the Car" service is activated.

Multimedia system:

→  **▶▶ Settings ▶▶ System**  
**▶▶ Internet and Bluetooth**  
**▶▶ Manage Internet access**

- ▶ Select **Search for Internet access** in the Internet device manager.
- ▶ Select **Acquired data package**.

For most Mercedes me connect services, data volume is available when purchasing the services.

Additional data volume is required to use some functions, e.g. web browser or Wi-Fi hotspot.

If the data volume limit is reached, the availability of Mercedes me connect services is limited.

Depending on the vehicle equipment, you can purchase a data package directly from a mobile phone network provider via the Mercedes me Store. To be able to use the data package, you

conclude a separate contract with a mobile phone network provider via the Mercedes me Store, which can be terminated at any time and for which there are no costs. This contract is a prerequisite for using the services from the previously purchased package. The availability of this option is dependent on the country.

If the data package option is not available or can be upgraded, you can purchase data volume directly from the mobile phone network provider for a fee.


- ① Visit a Mercedes-Benz service centre to find out whether it is possible to purchase data volume in your country **directly from a mobile phone network provider**.
- ① Alternatively, and if available, you can utilise the tethering function of a mobile phone via Wi-Fi to use the web browser or Wi-Fi hotspot.
- ① With external Wi-Fi hotspots, which are encrypted via TKIP, online software updates cannot be carried out via the external Wi-Fi hotspot.


## ■ Disconnecting the automatic Internet connection via communication module

### Requirements:

- Wi-Fi tethering is available in the vehicle.

Multimedia system:

↳  » Settings » System  
 » Internet and Bluetooth  
 » Manage Internet access

▶ Select the  settings in the line of **Acquired data package**.

▶ **To disconnect the automatic connection:** select the **Delete entry** option.

① The communication module is removed from the list of known hotspots, but can be reconnected manually at any time (→ page 446).


The **Delete entry** option permits the use of purchased data volume to be limited. The system is prevented from automatically establishing a connection to the communication module after this option has been activated.

## ■ Setting up an Internet connection via Wi-Fi

### Requirements:


- The Wi-Fi function is activated on the multimedia system (→ page 356).
- The Wi-Fi hotspot function is activated on the mobile phone (see the manufacturer's operating instructions).
- Internet access via Wi-Fi is activated (see the manufacturer's operating instructions).

Multimedia system:

↳  » Settings » System  
 » Internet and Bluetooth  
 » Manage Internet access


① This function is country-dependent.

### The mobile phone is listed in the Internet device manager

▶ Select the mobile phone with the  Wi-Fi symbol.

### The mobile phone is not listed in the Internet device manager

▶ Select **Search for access**.


- ▶ Select the mobile phone with the  Wi-Fi symbol. It may take a few seconds until the device is found by the Wi-Fi search.
- ▶ Log in to the Wi-Fi network (→ page 356).


The Internet connection via Wi-Fi is restricted or does not function in the following cases:

- The mobile phone is switched off
- Mobile data use is deactivated on the mobile phone
- The Wi-Fi function is deactivated on the multimedia system
- The Wi-Fi function is deactivated on the mobile phone
- Internet access via Wi-Fi is deactivated on the mobile phone

### ■ Cancelling Internet access permission for a mobile phone

Multimedia system:

- ▶  ▶ Settings ▶ System
- ▶▶ Internet and Bluetooth
- ▶▶ Manage Internet access

- ▶ Select options  next to the name of the mobile phone.
- ▶ Select **Delete configuration**.
- ▶ Select **Yes**.

### ■ Establishing an Internet connection

Multimedia system:

- ▶  ▶ Apps

- ▶ For example, select  **Browser**.

If you select a function that requires an Internet connection and the system is currently offline, a menu opens with a selection of possible Internet accesses as well as all tethering devices that are within range.


- ▶ Select an Internet access from the list. The Internet connection is established.

- ⓘ Depending on the vehicle equipment and country availability, you can establish an Internet connection via the communication module or connected mobile phones.
- ⓘ The availability of the web browser depends on the country.

## Connection status

### ■ Connection status overview

Depending on the connection status, the following symbols can appear on the central display in the status line:

- : a Wi-Fi device is selected as Internet access.
- Mobile phone standard (e.g. 4G + double arrow symbol): the communication module is selected as the hotspot.

### ■ Displaying the connection status

Multimedia system:

- ▶ 

- ▶ Briefly press the status line. The extended status line is displayed.

- ▶ Briefly press the Internet symbol in the symbol overview.  
The current connection status is displayed.

#### Notes on displaying the connection status

- When connecting via Wi-Fi, the connection status and device name are displayed.
- In the case of a connection via the communication module the following status information can be shown:
  - Type of network
  - Status (online, offline, data volumes available or used, limited service)
- For vehicles with a communication module, the connection data of non-user paid services can be displayed via [Mercedes me connect](#).

## Web browsers

### Calling up a web page

**⚠ WARNING** Risk of distraction from information systems and communications equipment

If you operate information systems and communication devices integrated in the vehicle when driving, you could be distracted from the traffic situation. This could also cause you to lose control of the vehicle.

- ▶ Only operate this equipment when the traffic situation permits.
- ▶ If you cannot be sure of this, stop the vehicle whilst paying attention to road and traffic conditions and operate the equipment with the vehicle stationary.

You must observe the legal requirements for the country in which you are currently driving when operating the multimedia system.

Multimedia system:



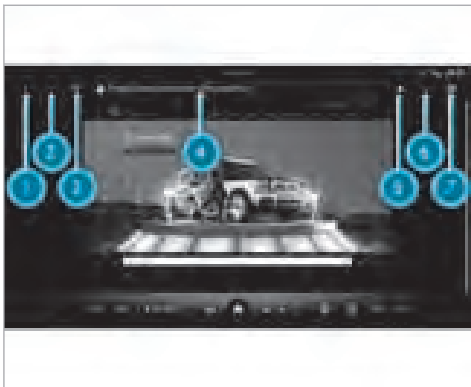
### Calling up a new web page

- ▶ Select **Search**.
- ▶ Entering a web address.
- ▶ Select **ok**.
- ⓘ The function is country-dependent.
- ⓘ No web pages can be displayed on the multimedia system while driving.

### Calling up a website from the browser history

- ▶ **To call up the previous page from the history:** select **<**.

## Web browser overview



- ① Previous website
- ② Next website
- ③ Update
- ④ URL
- ⑤ Adds/removes bookmarks
- ⑥ Options
- ⑦ Settings

① Under you have the following options:

- Tabs
- Bookmarks & history
- Reading mode
- Share link
- Share content
- Request mobile website

### Calling up web browser options

Multimedia system:

Browser  
 Bookmarks & history

The following functions are available:

- Bookmarks
  - Browsing history
  - Entered URLs
- Select an option.
  - Change the settings.

### Calling up the web browser settings

Multimedia system:

Browser  
 Settings

The following functions are available:

- Block popups
  - Enable cookies
  - Enable Javascript
- Switch a function on or off .

### Deleting browser data

Multimedia system:

Browser  
 Browser data

The following specific browser data can be deleted:

- Cache
  - Cookies
  - Form data
- Select one of the options shown.

## Managing bookmarks

Multimedia system:



- ▶ Select **Bookmarks & history**.
- ▶ Select after the bookmark.  
A menu with options opens.

The following options are available:

- [Delete entry](#)
  - [Delete all](#)
  - [Edit](#)
  - [Share](#)
- ▶ Select one of the options shown.

## Managing tabs

Multimedia system:



Opening a new tab

- ▶ Select **New tab**.

## Changing tab

- ▶ Select the icon for the desired tab.

## Closing a tab

- ▶ Press and hold the icon of the tab to be closed until a menu appears.
- ▶ Select **Close**.  
The tab is closed.

## Private mode

- ▶ Switch private mode on or off .
- If the private mode is switched on, an icon appears in the input line of the web browser.
- In private mode, neither the history nor cookies are saved.  
Bookmarks can also be created in private mode.

## Sharing URLs from the web browser

Requirements:

- To share via QR code: an app for scanning the QR code is installed on the mobile device.

Multimedia system:



## Sharing URLs via QR code

- ▶ Select **Share link**.  
A QR code appears.
- ▶ Scan the displayed QR code with a mobile device.

## Sharing URLs with another display

- ▶ Select **Share content**.
- ▶ In the menu drag and drop a display to another display.  
The displayed web page opens on the other display.
- More information on sharing display content

## Setting the web browser in the background

Multimedia system:




- ▶ Press .  
Audio playback continues.

## Audials Radio

### Calling up Audials Radio

#### Requirements:

- There is a user account at <https://www.mercedes.me>.
- The vehicle is linked to the Mercedes me user account.
- The Internet Radio service is activated.
- The data volume is available.  
Depending on the country, data volume may need to be purchased.
- A fast Internet connection for data transmission free of interference.

 The functions and services are country-dependent. For more information, consult a Mercedes-Benz service centre.

Multimedia system:

 **Radio**


- ▶ Select **Audials Radio**.  
The Audials Radio menu appears. The last station set starts playing.

 The connection quality depends on the local mobile phone reception.

### Selecting and connecting Audials Radio stations

Multimedia system:

 **Radio** ▶ **Audials Radio**

- ▶ Select .
  - ▶ Select a category.
  - ▶ Select a station.  
The connection is established automatically.
- or
- ▶ Select the search field.
  - ▶ Enter a station name.

 A relatively large volume of data can be transmitted when using Internet Radio.

### Saving/deleting an Audials Radio station as a favourite

Multimedia system:


 **Radio** ▶ **Audials Radio**

#### Saving favourites

- ▶ Select a station.

- ▶ Press .

#### Deleting favourites

- ▶ Select a station.
- ▶ Press .

### Setting Internet Radio options

Multimedia system:

 **Radio** ▶ **Audials Radio** ▶ 

The following options are available:

- **Login to Audials account:** log in to your Audials user account
  - **Log out of account:** log out from your Audials user account
- ▶ Select an option.



## Media

### Information about media mode

### Information about supported formats and data storage media

**⚠ WARNING** Risk of distraction when handling data storage media

If you handle a data storage medium while driving, your attention is diverted from the traffic conditions. This could also cause you to lose control of the vehicle.

▶ Only handle a data storage medium when the vehicle is stationary.

### Supported formats and data storage media:

Permissible file systems	FAT32, exFAT, NTFS
Permissible data storage media	USB mass storage device, iPod®/iPhone®, MTP devices, Bluetooth® audio devices

Supported audio formats	MP3, WMA, AAC, WAV, FLAC, ALAC
Supported video formats	MPEG, AVI, MKV, MP4, M4V, WMV

**i** Observe the following notes:

- The multimedia system supports a total of up to 50,000 files.
- Data storage media up to 2 TB are supported (32-bit address space).
- Due to the large variety of available music and video files regarding encoders, sampling frequency and data transfer rates, playback cannot be guaranteed.
- Due to the wide range of USB mass storage devices available on the market, playback cannot be guaranteed for all USB mass storage devices.
- Videos up to FullHD (1920x1080) are supported.
- Copy-protected music and video files or DRM (Digital Rights Management) encrypted files cannot be played back.

- MP3 players must support Media Transfer Protocol (MTP).

### Information on copyright protection and trademarks

Audio files which you create yourself (e.g. copies of data storage media you make yourself) are generally subject to copyright protection. In many countries, reproductions are not permitted without the prior consent of the copyright holder, even for private use. Make sure that you know about the applicable copyright regulations and that you comply with these.



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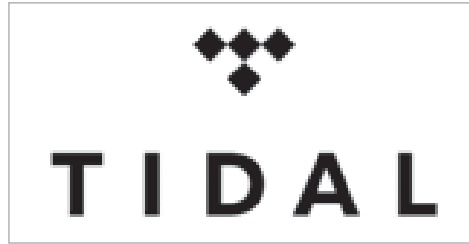
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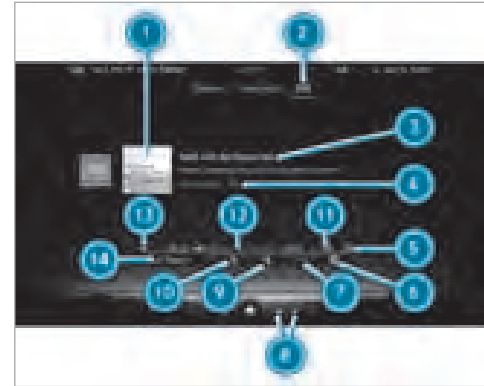
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## Overview of the media menu



- ① Album cover
- ② Active media source
- ③ Track and artist
- ④ Active data storage medium and current track number/track in playback list
- ⑤ Repeat
- ⑥ Settings

- 7 Additional options
- 8 Previous or next track and fast rewind or fast forward
- 9 Additional categories
- 10 Playlists and categories
- 11 Random playback
- 12 Timeline
- 13 Controls playback
- 14 Media search

When the control menu is called up on the zero layer, the following functions are available:

- Controlling media playback
  - Selecting tracks from the current playlist
  - Selecting a playback list
  - Media search
  - Selecting a media source
  - Creating favourites
  - Configuring settings
- i** Further information on:
- Overview of the zero layer (→ page 326).
  - Operating the zero layer (→ page 328).

## Connecting the data storage medium to the multimedia system

### Connecting USB mass storage devices

#### **!** NOTE Damage due to high temperatures

High temperatures can damage USB mass storage devices.

- ▶ After use, remove USB mass storage devices from the vehicle.

- ▶ Connect the USB mass storage device with the USB port.

### Searching for and authorising a Bluetooth® audio device

#### Requirements:

- Bluetooth® is activated on the multimedia system and audio equipment.
- The audio equipment supports the Bluetooth® audio profiles A2DP and AVRCP.
- The audio equipment is "visible" for other devices.

Multimedia system:



### Authorising a new Bluetooth® audio device

- ▶ Select **Connect device**.  
Detected equipment is displayed in the device list.
- ▶ Select an audio device.  
Authorisation starts. A code is displayed on the multimedia system and on the mobile phone.
- ▶ If the codes are identical, confirm on the audio equipment.
- ▶ Select **No, only music**.  
The Bluetooth® audio equipment is connected with the multimedia system.

### Connecting previously authorised Bluetooth® audio equipment

- ▶ Select a Bluetooth® audio device from the list.  
The connection is being established.

## Starting media playback

### Requirements:

- A data storage medium is connected to the multimedia system.

Multimedia system:



- ▶ Select a media source.

## Controlling media playback

Multimedia system:



- ▶ To pause playback: select
- ▶ To continue playback: select
- ▶ To repeat a track: select

For the repeat function there are the following settings:

- **Select once:** the active playlist is repeated.
- **Select twice:** the current track is repeated.
- **Select three times:** the repeat function is deactivated.

- ▶ To play back tracks in random order: select .
- ▶ To rewind or fast-forward a track: tap on the desired point on the timeline.
- ▶ To select the next track: select .
- ▶ To select the previous track: select .
- ▶ To scroll through tracks quickly: press and hold or .
- ▶ To show the current track list: select .

## Additional options for setting media playback

Multimedia system:



### Calling up additional options

- ▶ Select .
- ▶ The additional options are shown.
- ▶ Select an option.

## Media search

### Notes about the search function in categories

Under you can search through all available media files. There are several categories available for selection. The categories shown depend on the connected device and data format.

- ⓘ The categories are available as soon as the entire media content has been read in and analysed.  
Availability of the media search with Android devices may be limited.

### Starting a search in categories

Multimedia system:





- ▶ Select a category.
- ▶ Enter a search term in the search bar.

### Using the keyword search

Multimedia system:



You can look for content using the keyword search with free text input.

- ▶ Select . A keyboard for character entry appears.
- ▶ Enter the term searched for.
- ① The search begins with the first character entered. The more characters entered the more concrete the search results become.
- ▶ Select the desired entry from the result list. If a list with several tracks is selected, then this is opened in the search.
- To playback all of the tracks in the list, select  and then **Play now**.

### Media mode on the front passenger display (only vehicles with MBUX Hyperscreen)

#### Information about media mode

You can also use functions of the MBUX multimedia system on the front passenger display.

You can find more information on the following topics:

- Information about supported formats and data storage media (→ page 453)

- Information on copyright protection and trademarks (→ page 453)
- Overview of the media menu (→ page 455)

#### **⚠ WARNING** Risk of injury from unsecured items in the vehicle

If objects such as headphones/headsets or external audio/video sources are not secured in the vehicle interior, they can be flung around and hit vehicle occupants.

- ▶ Always stow these items or similar objects carefully so that they cannot be flung around, for example in a lockable vehicle stowage compartment.

Observe the notes on loading the vehicle.

#### **⚠ WARNING** Health hazard due to excessive volume on headphones

Excessive volume can damage your hearing.

- ▶ Avoid wearing headphones for long periods of time and at too high a volume (85 decibels).

- ▶ Ensure that the volume is set to a comfortable level.

- ① The headphones are special equipment for the MBUX multimedia system. You can also obtain the headphones from Mercedes-Benz Customer Solutions or in a specialist shop (see the manufacturer's operating instructions).
- ① The function of wireless headphones can be impaired by other radio-based electronic devices, such as mobile phones, for example.




### Starting and operating media playback

#### Requirements:

- A data storage medium is connected to the multimedia system.

Multimedia system:

  **Media**

- ▶ Select a media source.
- ▶ **To adjust the volume:** select  in the menu line and press  or .

- ▶ **To set playback via vehicle loudspeakers:** press  in the menu line.

The following functions are available:

- Controlling media playback (→ page 457)
- Options for setting media playback (→ page 457)
- Starting a search in categories (→ page 457)
- Using the keyword search (→ page 457)

## Music online

### Requirements

- There is an account for the music streaming service.
- A subscription for the music streaming service has been obtained.
- A Wi-Fi hotspot with unrestricted or sufficient data volume is available.  
Depending on the country, data volume may need to be purchased.
- A fast Internet connection for data transmission free of interference.

- ⓘ The functions and services are country-dependent. For more information, consult a Mercedes-Benz service centre.


Multimedia system:



### Adding a streaming provider the first time you start the application



- ▶ Select **Online music**.  
The overview of all supported streaming providers appears.
- ▶ Select a streaming provider.  
A QR code is shown on the display.
- ▶ Scan the QR code with the mobile phone.
- ▶ Confirm the connection request on the mobile phone.

### Adding more streaming providers

- ▶ Select **Online music**.  
The last active streaming provider is active.
- ▶ Select .

- ▶ Select **Music services**.  
The overview of all supported streaming providers appears.
- ▶ Select a streaming provider.  
A QR code is shown on the display.
- ▶ Scan the QR code with the mobile phone.
- ▶ Confirm the connection request on the mobile phone.

### Logging out from a streaming provider

- ▶ Select **Online music**.  
The last active streaming provider is active.
- ▶ Select .
- ▶ Select **Music services**.  
The overview of all supported streaming providers appears.
- ▶ Select  next to the streaming provider.
- ▶ Tap on **Log out**.

### Calling up music online

Multimedia system:



- ▶ Select **Online music**.

Music playback can be controlled with the Touch Control or by using the media application.

### ■ Searching for music in online music

Multimedia system:

   **Media**  **Online music**


### ■ Searching for categories in online music

The media content of the streaming provider can be scanned through in the category search. The available categories and the symbol for the category search depend on the streaming provider.

- ▶ Start the category search.  
The list of available categories appears.
- ▶ Select a category.

### ■ Keyword search in online music

You can look for content using the keyword search with free text input.

- ▶ Select .
- A keyboard for character entry appears.
- ▶ Enter the term searched for.




- ⓘ The more characters entered when using the keyword search, the more concrete the search results are.

- ▶ Select the desired entry from the result list. Depending on the selected hit, playback is started or a lower level in the search is opened.

### ■ Calling up online music settings

Multimedia system:

   **Media**  **Online music**

- ▶ Select .
- ▶ Select **Music services**.
- ▶ Select  next to a streaming provider.
- ▶ Select a setting.
- ⓘ Information about the linked accounts can be displayed using the  gear icon next to the configured streaming provider. The available information depends on what is offered by the provider of the streaming service.

## Radio

### Switching on the radio

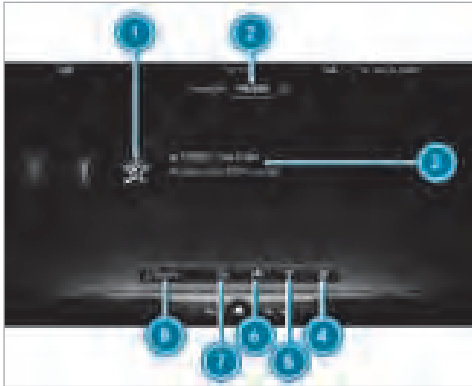
Multimedia system:

  **Radio**

- ▶ Start the application on the multimedia system home screen.  
The radio menu appears. You will hear the last station played on the last frequency band selected.



## Radio overview



- ① Preview image
- ② Active frequency band
- ③ Station name or set frequency
- ④ Settings
- ⑤ Sound settings
- ⑥ Switches on traffic reports

With DAB equipment: switches on radio announcements

- ⑦ Station list
- ⑧ Search

ⓘ The availability of the frequency bands is dependent on the equipment.

When the control menu is called up on the zero layer, the following functions are available:

- Selecting a radio station
  - Setting radio stations from the station list
  - Storing radio stations
  - Frequency band
  - Search function
  - Creating favourites
  - Configuring settings
- ⓘ Further information on:
- Overview of the zero layer (→ page 326).
  - Operating the zero layer (→ page 328).

You can watch an animation on this topic via the following link:

## Setting the frequency band

Multimedia system:



▶ Select a frequency band or a favourite.

## Selecting a radio station

Multimedia system:




▶ Swipe to the left or right on the control element or select a radio station.

## Calling up the radio station list

Multimedia system:



- ▶ Select . The station list appears.
- ▶ Swipe the station list up or down.
- ▶ Select a station.

## Searching for radio stations using station names or frequency entry

Multimedia system:



- ▶ Select .
- ▶ Enter a station name or frequency.
- ▶ Select a station.

## Selecting a recommended radio station

### Requirements

- The multimedia system has gathered sufficient data in order to show station suggestions.

Multimedia system:



- ▶ Select .
- ▶ The recommended stations are shown.
- ▶ Select a suggested station.
- ▶ The selected station is played.

## Storing radio stations

Multimedia system:



- ▶ Select a radio station.
- ▶ Select .

## Managing favourites

Multimedia system:



### Moving stations

- ▶ Press .
- ▶ The list of favourites appears.
- ▶ Press to the far right of the station name.
- ▶ Select **Move**.
- ▶ Move the station to the new position.

## Calling up a slide show (FM/DAB radio mode)

Multimedia system:



The slide show displays additional information provided by the station as an image. This can include logos, album covers, music tracks, programmes, news or service information, for example.

- ⓘ The slide show is available for DAB+ channels that broadcast additional information.
- ▶ Press the station picture on the central display.
- ▶ The image is enlarged.

## Switching a slideshow on or off (FM/DAB radio mode)

Multimedia system:



- ▶ Switch **DAB Slideshow** or **Expanded Radio Slideshow** on or off .
- ▶ When both slideshows are switched on, the contents of both slideshows alternate.

### Activating/deactivating the frequency fix function

Multimedia system:



▶▶ Active frequency band

- ▶ Activate or deactivate **Frequency fix**.  
If the function is activated, the set frequency is kept even if the reception is poor.

### Activating/deactivating traffic announcements

Multimedia system:



- ▶ Select **TA**.  
The traffic information is switched on or off.

### Activating/deactivating radio announcements

Multimedia system:



- ▶ Switch on **Radio announcements**.  
The selected radio announcements are played.

When **Radio announcements** are first switched on, **Traffic information service (TA)**, **Travel** and **Warning** are preset.

or

- ▶ Switch off **Radio announcements**.  
No radio announcements are played.

### Selecting radio announcements

Multimedia system:



▶▶ Radio announcements

- ▶ Switch an announcement on  or off.  
For example, **Traffic information service (TA)**, **Travel** or **Warning** can be selected.

**i** The radio announcements are not station-dependent.

### Setting the traffic information service volume increase

Multimedia system:



- ▶ Select **Navigation & traffic announcements**.
- ▶ Set a value for **Traffic announc. vol. increase**.

### Displaying radio text

Multimedia system:



▶▶ Active frequency band

- ▶ Activate or deactivate **Radio text information**.

### Showing or hiding lyrics

**i** The function is equipment-dependent.

Multimedia system:



### Showing lyrics

- ▶ Select **Show lyrics**.  
The lyrics, album cover, title and artist of the song currently playing on the radio are displayed.  
Swipe up or down to go to the bottom or top section of the lyrics.  
If no lyrics are available for the song currently playing on the radio, **Show lyrics** is greyed out.

### Hiding lyrics

- ▶ Select the cross at the top of the lyrics display.
- or
- ▶ Select .  
The radio menu appears.

## Sound

### Sound settings

#### Information about the sound system

The sound system has a total output of 125 W and is equipped with seven speakers. It is available for all functions in the radio and media modes.

- ▶ The call can also be made from other audio sources. Replace Media with, for example, Radio in the menu path.

#### Calling up the sound menu

Multimedia system:



- ▶ Select one of the functions shown to make settings.

#### Adjusting treble, mid-range and bass settings

Multimedia system:



- ▶ Set **Treble**, **Mid** or **Bass**.

#### Setting the balance and fader

Multimedia system:



- ▶ **Balance and Fader**

#### Adjusting the balance

- ▶ Move the volume distribution between the right and left sides of the vehicle in the grid shown.  
The volume is distributed between the speakers on the left and right sides in the vehicle.

#### Adjusting the fader

- ▶ Move the volume distribution between the front and rear of the vehicle in the grid shown.  
The volume is distributed between the speakers in the front and rear of the vehicle.

### Burmester® 4D surround sound system

#### Information on the Burmester® 4D surround sound system

The Burmester® 4D surround sound system has a total output of 730 W and is equipped with 17 speakers including two speakers close to the driv-

er's ear to support navigation announcements and telephony. Furthermore the sound system is equipped with two tactile transducers each for the driver and front passenger seats. It is available for all functions in the radio and media modes.

- ❶ The navigation announcements from the speakers close to the driver's ears can be set in the system settings (→ page 394). Telephony with the speakers close to the driver's ears can be set in the telephone menu (→ page 416).
- ❷ Calling up from other audio sources is also possible. Replace Media with, for example, Radio in the menu path.

### ■ Calling up the sound menu in the Burmester® 4D surround sound system

Multimedia system:



### Adjusting sound settings

- ▶ Select one of the functions shown to make settings.

### Setting 4D sound

- ▶ Select **4D sound adjustment**.
- ▶ Select a seat.
- ▶ Use the controller to set the intensity of the bass vibrations.

### ■ Adjusting the treble, mid and bass settings in the Burmester® 4D surround sound system

Multimedia system:



- ▶ Set **Treble**, **Mid** or **Bass**.

### ■ Adjusting the balance and fader in the Burmester® 4D surround sound system

Multimedia system:



- ▶▶ **Balance and Fader**

### Adjusting the balance

- ▶ Move the volume distribution between the right and left sides of the vehicle in the grid shown. The volume is distributed between the speakers on the left and right sides in the vehicle.

### Adjusting the fader

- ▶ Move the volume distribution between the front and rear of the vehicle in the grid shown. The volume is distributed between the speakers in the front and rear of the vehicle.
- ❶ Setting **0** is recommended for high quality music and voice reproduction.

### ■ Selecting a sound profile in the Burmester® 4D surround sound system


Multimedia system:



### Setting an existing sound profile

- ▶ Select a sound profile.

### Setting up a personal sound profile


- ▶ Select **Personal sound profile** and select . Select **Reconfigure** and restart the set-up assistant.

### Setting up a personal sound profile for the first time:

- ▶ Select **Personal sound profile**.
- ▶ Open the set-up assistant with **Start**.

- ▶ Observe the messages on the display and select the preferred settings. The personal sound profile is created with the selected settings and can be selected in the **Sound profiles** menu.

### Changing individual settings of the personal sound profile at a later date:

- ▶ Select **Personal sound profile**, then select  and adjust the desired settings.
- ⓘ The availability of a **Personal sound profile** is dependent on the equipment. The set-up assistant is available when the vehicle is stationary.

### Adjusting the sound focus in the Burmester® 4D surround sound system

Multimedia system:

 **Media**  **Sound focus**

- ▶ Select a seat or row of seats for the sound focus. The sound focus is activated.

or

- ▶ Select the seat or row of seats again. The sound focus is deactivated.

### Super Sport sound

#### Information on Super Sport sound

The Super Sport sound function enhances your experience of engine noise in your vehicle's interior. Your vehicle generates sporty engine noise content appropriate to the current driving situation and plays this back in the vehicle interior via the sound system speakers.

- ⓘ The Super Sport sound function is an on-demand feature (→ page 25).

### Camera app

#### Overview of the camera app

The laws concerning video and audio recordings of vehicle surroundings and vehicle occupants may differ depending on the country. Please observe the laws of the country in which you are recording.

With the camera app, you can take photos, multiple shots, and videos, both from **Internal** as well as from **External**. You can switch between the two cameras in the overview. It is operated using the touchscreen or Touch Control.

You can view your captured photos and videos in the Gallery app.

Additional information about the Gallery app (→ page 436)

- ⓘ The function is country-dependent.
- ⓘ No photos or videos can be taken while the vehicle is in motion.
- ⓘ If the USB flash drive is not recognised by the vehicle, you can try to fix the error by connecting the USB flash drive to a computer.
- ⓘ To ensure secure operation, only use FAT32 or exFAT formatted USB storage devices.
- ⓘ Do not remove the USB flash drive during recording. This can damage the files. You can eject the USB flash drive in the settings (→ page 467)

## Display messages

In the following situations display messages may be shown:

- The memory is full or there are only a few minutes recording time available. The video recording stops or will be stopped imminently.  
Change the USB device or delete a photo or video file.
- The camera is not functioning. A message appears.  
Have the camera checked in a Mercedes-Benz service centre.
- No USB device is connected to save the recordings.  
The **Please insert a storage medium into the USB port to start recording.** message appears.
- If a dashcam recording is started during a video recording with the Camera app, the video recording pauses.  
The **Recording interrupted by dashcam recording.** message appears.
- The camera is being used from another seat.

## Taking photos and videos with the Camera app

### Requirements:

- For recording and saving a photo or video file: a USB device is connected with the multimedia system (→ page 456)
- The vehicle is switched on.

Multimedia system:



### The following recording modes are available:

- Video
  - Photos
  - Multiple shots
- ▶ Capture a video, photo, or multiple shots by selecting the appropriate icon.
- i** Every time the Camera app is launched, a liability notice appears. If the application should be started, select **OK**.
- i** You can view your captured photos and videos in the Gallery app. To do this, select the Gallery app icon in the overview.

## Configuring Camera app settings

Multimedia system:




### The following functions are available:

- **Snapshot timer**
- **Multiple shots**
- **Interval between shots**

- ▶ Select an option.
- ▶ Change the settings.


### Ejecting the USB flash drive

- ▶ Select **Storage medium**.
- ▶ Select  after the device name. The **You can now disconnect the storage medium.** message appears.

## ASSYST PLUS service interval display

### Function of the ASSYST PLUS service interval display

The ASSYST PLUS service interval display on the driver's display provides information on the remaining time or distance before the next service due date.

You can hide this service display using the back button  on the steering wheel.

Depending on how the vehicle is used, the ASSYST PLUS service interval display may shorten the service interval, e.g. in the following cases:

- Mainly short-distance driving
- When the engine is often left idling for long periods
- In the event of frequent cold start phases
- **Vehicles with diesel particulate filters:** in the event of frequently interrupted regeneration of the diesel particulate filter

Mercedes-Benz recommends avoiding such operating conditions.

You can obtain information concerning the servicing of your vehicle from a qualified specialist workshop, e.g. a Mercedes-Benz Service Centre.

### Displaying the service due date


Driver's display:

 Service

The next service due date is displayed.


 **To exit the display:** press the back button  on the steering wheel.

### Information on regular maintenance work

 **NOTE** Premature wear through failure to observe service due dates

Maintenance work which is not carried out at the right time or incompletely can lead to increased wear and damage to the vehicle.

 Adhere to the prescribed service intervals.

 Always have the prescribed maintenance work carried out at a qualified specialist workshop.

### Notes on special service requirements

The prescribed service interval is based on normal operation of the vehicle. Have the maintenance work carried out more often than prescribed if operating conditions are difficult or the vehicle is subject to increased stress.

The ASSYST PLUS service interval display is only an aid. It is the responsibility of the driver of the vehicle to have maintenance work carried out more often than prescribed due to actual operating conditions and/or stresses.

Examples of arduous operating conditions:

- Regular city driving with frequent intermediate stops
- Mainly short-distance driving
- Frequent operation in mountainous terrain or on poor road surfaces



- When the engine is often left idling for long periods
- Operation in particularly dusty conditions and/or if air-recirculation mode is frequently used

In these or similar operating conditions, have the interior air filter, air filter, engine oil and oil filter, for example, changed more frequently. Check the tyres more frequently if the vehicle is operated under increased stress. Further information can be obtained at a qualified specialist workshop.

### Battery disconnection periods

The ASSYST PLUS service interval display can calculate the service due date only when the battery is connected.

- ▶ Display and note down the service due date on the driver display before disconnecting the battery (→ page 468).

## Maintenance Management

### Notes about Maintenance Management

If the Maintenance Management service is activated, relevant data is automatically transferred to the Mercedes-Benz customer centre.

The customer centre transmits the data to the service partner that you have entered on the Mercedes me website at: <http://www.mercedes.me>. You will then receive individual recommendations regarding the maintenance of your vehicle.

- ⓘ The calculation of the optimal transmission time of the maintenance request to the service partner is subject to technical limitations that may cause the maintenance recommendation to be perceived as too early or too late or not to be made at all. In this case, you can conveniently arrange a maintenance appointment with the customer centre via the maintenance reminder in the multimedia system.
- ⓘ Maintenance Management and the maintenance reminder in the multimedia system are not available in every country. Contact a

Mercedes-Benz service centre to find out whether this function is available in your country.

### Data transferred when using Maintenance Management

When the service is activated, relevant data is automatically transferred to determine the required scope of maintenance as well as fault detection and fault rectification.

Details on data transfer can be found in the data protection information for the Mercedes me connect services. These can be found at: <https://www.mercedes.me> under "My Mercedes me account", "Terms of use".

- ⓘ Maintenance Management and the maintenance reminder in the multimedia system are not available in every country.

## Telediagnosics

### Notes about Telediagnosics

- ⓘ This service is not available in all countries.

The vehicle can detect if certain wear parts need to be replaced or if malfunctions have occurred in vehicle systems. If the Telediagnosics service is activated, relevant data is automatically transmitted to the manufacturer. If fault conditions are detected by the vehicle system self-diagnosis, the system transmits recommendations for action to the Mercedes-Benz customer centre depending on the fault detected. The customer centre transmits the data to the service partner that you have entered on the Mercedes me website at: <http://www.mercedes.me>.

For selected faults, the notification that a malfunction has been detected may appear in the multimedia system with a request to contact the Mercedes-Benz Customer Centre. From this message, a call can be made directly to the customer centre for assistance.

- i The transmission of a notification to the multimedia system depends on the country, vehicle model and equipment and requires a fast data connection, over which the service provider has no influence.
- i Reliable fault detection is subject to technical limitations. Therefore, only a limited selection

of faults can be detected and recommendations for action transmitted to the customer centre and the service partners. Mercedes-Benz AG is continuously working on the expansion of this service. The fault detection depends on the country, vehicle model and equipment.

### Data transferred when using Telediagnosics

When the service is activated, relevant data is automatically transferred to determine the required scope of maintenance as well as fault detection and fault rectification.

Details on data transfer can be found in the data protection information for the Mercedes me connect services. These can be found at: <https://www.mercedes.me> under "My Mercedes me account", "Terms of use".

- i The scope of the data transmitted depends on the vehicle model and equipment. For technical reasons, not all data is available at all times.

## Engine compartment

### Active bonnet (pedestrian protection)

#### ■ Operation of the active bonnet (pedestrian protection)

In certain accident situations, the actuation of the active bonnet reduces the risk of injury to pedestrians. The rear area of the bonnet is raised by approximately 80 mm.

After being triggered, the active bonnet remains in the raised position. Limited visibility due to the raised bonnet cannot be ruled out.

After the active bonnet has been actuated, pedestrian protection may be limited.

Have the full functionality of the active bonnet restored immediately in a qualified specialist workshop.

If necessary, adjust your seat position and drive carefully to a qualified specialist workshop. If a safe continued journey is not possible, contact a qualified specialist workshop.

## Opening and closing the bonnet

**⚠ WARNING** Risk of accident due to driving with the bonnet unlocked

The bonnet may open and block your view.

- ▶ Never release the bonnet when driving.
- ▶ Before every trip, ensure that the engine bonnet is locked.

**⚠ WARNING** Risk of accident and injury when opening and closing the bonnet

The bonnet may suddenly drop into the end position.

There is a risk of injury for anyone in the engine bonnet's range of movement.

- ▶ Do not open or close the bonnet if there is a person in the bonnet's range of movement.

**⚠ WARNING** Risk of burns when opening the bonnet

If you open the bonnet in the event of an overheated engine or fire in the engine compartment, the following situations may occur:

- You may come into contact with hot gases.
- You may come into contact with other escaping hot operating fluids.

- ▶ Before opening the bonnet, allow the engine to cool down.
- ▶ In the event of a fire in the engine compartment, keep the bonnet closed and call the fire service.

**⚠ WARNING** Risk of injury due to moving parts

Components in the engine compartment may continue to run or start unexpectedly even when the drive system is switched off.

Observe the following if you must open the bonnet:

- ▶ Switch off the vehicle.
- ▶ Never touch the danger zones surrounding moving components, e.g. the rotation area of the fan.
- ▶ Remove jewellery and watches.
- ▶ Keep items of clothing and hair away from moving parts.

**⚠ WARNING** Risk of injury from touching components under voltage

The ignition system and the fuel injection system operate at high voltage. You could receive an electric shock.

- ▶ Never touch ignition system or fuel injection system components when the vehicle is switched on.

The live components include the following, for example:

- Ignition coils
- Fuel injectors

- Electric lines to the ignition coils and the fuel injectors

**⚠ WARNING** Risk of burns from hot component parts in the engine compartment

Certain component parts in the engine compartment can be very hot, e.g. the engine, the cooler and parts of the exhaust system.

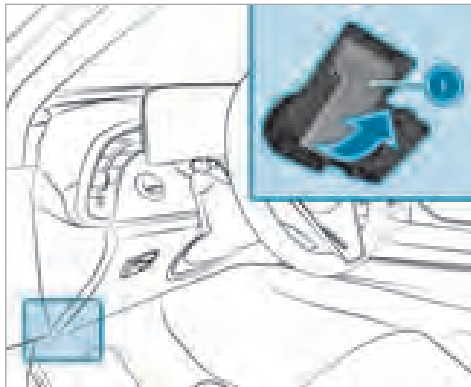
- ▶ Allow the engine to cool down and only touch component parts described in the following.

**⚠ WARNING** Risk of injury from using the windscreen wipers when the bonnet is open

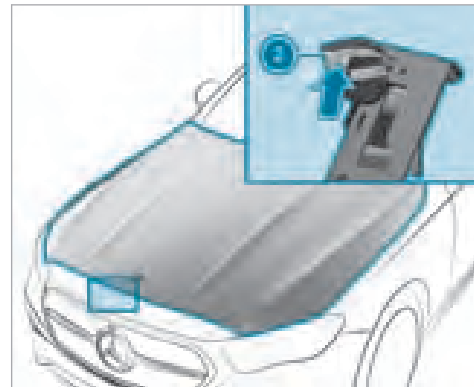
If the windscreen wipers start moving when the bonnet is open, you could be trapped by the wiper linkage.

- ▶ Always switch off the windscreen wipers and the vehicle first if you need to open the bonnet.

### Opening the bonnet



- ▶ To release the bonnet, pull on handle ①.



- ▶ Push handle ② of the bonnet catch upwards and lift the bonnet until it opens automatically.

### Closing the bonnet

**! NOTE** Damage to the bonnet

If the bonnet is closed manually, there is a risk of dents.

- ▶ Do not close the bonnet manually.

- ▶ Lower the bonnet to a height of around 20 cm and then allow it to fall, applying a little force as you let it go.
- ▶ If the bonnet can still be lifted slightly, open the bonnet again and close it with a little more force until it engages correctly.

## Engine oil

### ■ Checking the engine oil level using the driver's display

#### Requirements

- The engine has been warmed up.
- The vehicle is parked on a level surface.
- The engine is running at idle speed.
- The bonnet is closed.

Determining the engine oil level can take up to 30 minutes with a normal driving style and even longer with an active driving style.

Driver's display:

↪ Service

The engine oil level is shown.

One of the following messages will appear on the driver's display:

- **Engine oil level Measuring now...**: the engine oil level cannot be determined yet.
- ▶ Repeat the request after a maximum of 30 minutes' driving.
- **Engine oil level OK** and the bar display for indicating the engine oil level on the driver's display is green and is between "min" and "max": the engine oil level is correct.
- **Engine oil level Top up 1,0 l** and the bar display for indicating the engine oil level on the driver's display is yellow and is below "min":
- ▶ Add 1 l of engine oil.
- **Engine oil level Reduce** and the bar display for indicating the engine oil level on the driver's display is yellow and is above "max":
- ▶ Drain off any excess engine oil that has been added. To do so, consult a qualified specialist workshop.
- **For engine oil level, switch on vehicle**

- ▶ Switch on the vehicle to check the engine oil level.

- **Engine oil level System inoperative**: The oil level sensor is defective or not connected.
- ▶ Consult a qualified specialist workshop.
- **Engine oil level System currently inoperative**
- ▶ Close the bonnet.

### ■ Topping up engine oil

**⚠ WARNING** Risk of burns when opening the bonnet

If you open the bonnet in the event of an overheated engine or fire in the engine compartment, the following situations may occur:

- You may come into contact with hot gases.
- You may come into contact with other escaping hot operating fluids.
- ▶ Before opening the bonnet, allow the engine to cool down.

- ▶ In the event of a fire in the engine compartment, keep the bonnet closed and call the fire service.

**⚠ WARNING** Risk of injury due to moving parts

Components in the engine compartment may continue to run or start unexpectedly even when the drive system is switched off.

Observe the following if you must open the bonnet:

- ▶ Switch off the vehicle.
- ▶ Never touch the danger zones surrounding moving components, e.g. the rotation area of the fan.
- ▶ Remove jewellery and watches.
- ▶ Keep items of clothing and hair away from moving parts.

**⚠ WARNING** Risk of burns from hot component parts in the engine compartment

Certain component parts in the engine compartment can be very hot, e.g. the engine, the cooler and parts of the exhaust system.

- ▶ Allow the engine to cool down and only touch component parts described in the following.

**⚠ WARNING** Risk of fire and injury from engine oil

If engine oil comes into contact with hot component parts in the engine compartment, it may ignite.

- ▶ Make sure that no engine oil is spilled next to the filler opening.
- ▶ Allow the engine to cool off and thoroughly clean the engine oil from component parts before starting the vehicle.

**! NOTE** Engine damage caused by an incorrect oil filter, incorrect oil or additives

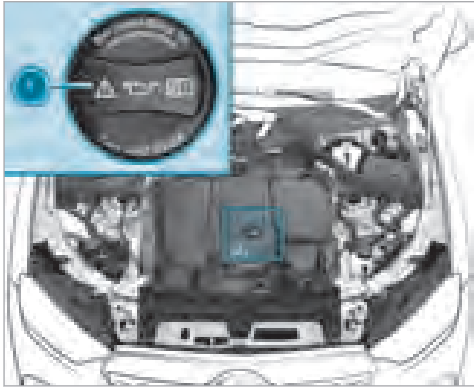
- ▶ Do not use engine oils or oil filters which do not correspond to the specifications explicitly prescribed for the service intervals.
- ▶ Follow the instructions on the service interval display for changing the engine oil and observe the prescribed change intervals.
- ▶ Do not use additives.

**! NOTE** Damage caused by topping up too much engine oil

Excess engine oil can damage the engine or catalytic converter.

- ▶ Have excess engine oil removed at a qualified specialist workshop.

- ⓘ Depending on driving style, the vehicle consumes up to 0.8 litres of oil per 1000 km. The oil consumption may also be higher than this when the vehicle is new or if you frequently drive at high engine speeds.



- ▶ Turn cap ① anti-clockwise and remove it.
- ▶ Top up the engine oil.

- ▶ Replace cap ① and turn it clockwise until it engages.
- ▶ Check the oil level again (→ page 473).

### Checking the coolant level

- ⚠ WARNING** Risk of burns when opening the bonnet

If you open the bonnet in the event of an overheated engine or fire in the engine compartment, the following situations may occur:

- You may come into contact with hot gases.
  - You may come into contact with other escaping hot operating fluids.
- ▶ Before opening the bonnet, allow the engine to cool down.
  - ▶ In the event of a fire in the engine compartment, keep the bonnet closed and call the fire service.

- ⚠ WARNING** Risk of injury due to moving parts

Components in the engine compartment may continue to run or start unexpectedly even when the drive system is switched off.

Observe the following if you must open the bonnet:

- ▶ Switch off the vehicle.
- ▶ Never touch the danger zones surrounding moving components, e.g. the rotation area of the fan.
- ▶ Remove jewellery and watches.
- ▶ Keep items of clothing and hair away from moving parts.

- ⚠ WARNING** Risk of burns from hot component parts in the engine compartment

Certain component parts in the engine compartment can be very hot, e.g. the engine, the cooler and parts of the exhaust system.

- ▶ Allow the engine to cool down and only touch component parts described in the following.

**⚠ WARNING** Risk of scalding from hot coolant

If you open the cap, you could be scalded.

- ▶ Let the motor cool down before opening the cap.
- ▶ When opening the cap, wear protective gloves and safety glasses.
- ▶ Open the cap slowly to release pressure.

- ▶ Have the coolant checked or refilled only at a qualified specialist workshop.

### Topping up the windscreen washer system

**⚠ WARNING** Risk of burns when opening the bonnet

If you open the bonnet in the event of an overheated engine or fire in the engine compartment, the following situations may occur:

- You may come into contact with hot gases.
- You may come into contact with other escaping hot operating fluids.

- ▶ Before opening the bonnet, allow the engine to cool down.
- ▶ In the event of a fire in the engine compartment, keep the bonnet closed and call the fire service.

**⚠ WARNING** Risk of injury due to moving parts

Components in the engine compartment may continue to run or start unexpectedly even when the drive system is switched off.

Observe the following if you must open the bonnet:

- ▶ Switch off the vehicle.
- ▶ Never touch the danger zones surrounding moving components, e.g. the rotation area of the fan.
- ▶ Remove jewellery and watches.
- ▶ Keep items of clothing and hair away from moving parts.

**⚠ WARNING** Risk of burns from hot component parts in the engine compartment

Certain component parts in the engine compartment can be very hot, e.g. the engine, the cooler and parts of the exhaust system.

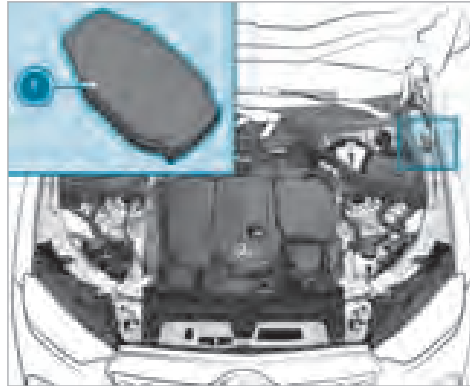
- ▶ Allow the engine to cool down and only touch component parts described in the following.



**⚠ WARNING** - Risk of fire and injury due to windscreen washer concentrate

Windscreen washer concentrate is highly flammable. It could ignite if it comes into contact with hot engine component parts or the exhaust system.

- ▶ Make sure that no windscreen washer concentrate spills out next to the filler opening.



- ▶ Open cap ① by the tab.
- ▶ Top up the washer fluid.

### Keeping the air/water duct free

- ▶ Keep the area between the bonnet and the windscreen free of deposits, e.g. ice, snow or leaves.

## Cleaning and care

### Information on washing the vehicle in a car wash

**⚠ WARNING** Risk of an accident due to reduced braking power after washing the vehicle

Braking efficiency is reduced after washing the vehicle.

- ▶ After the vehicle has been washed, brake carefully while paying attention to the traffic conditions until braking power has been fully restored.

**! NOTE** Damage from automatic braking

If one of the following functions is activated, the vehicle will brake automatically in certain situations:

- Active Brake Assist
- Active Distance Assist DISTRONIC
- HOLD function
- Active Parking Assist

To avoid damage to the vehicle, deactivate these systems in the following or similar situations:

- ▶ During towing.
- ▶ In a car wash.

**!** **NOTE** Damage due to unsuitable car wash

- ▶ Before driving into a car wash make sure that the car wash is suitable for the vehicle dimensions.
- ▶ Ensure there is sufficient ground clearance between the underbody and the guide rails of the car wash.
- ▶ Ensure that the clearance width of the car wash, in particular the width of the guide rails, is sufficient.

To avoid damage to your vehicle when using a car wash, ensure the following beforehand:

- Active Distance Assist DISTRONIC is deactivated.
- The HOLD function is switched off.

- The 360° camera or the reversing camera is switched off.
- The vehicle is locked and the door handles are retracted.
- The side windows and sliding sunroof are completely closed.
- The outside mirrors are folded in.
- The blower for the ventilation and heating is switched off.
- The windscreen wiper switch is in position **0**.
- The key is at a minimum distance of 6 m away from the vehicle. Otherwise, the boot lid or a door could open unintentionally.  
This also applies to the Digital Vehicle Key.
- For car washes with a conveyor system:
  - Neutral **N** is engaged.
  - The vehicle is locked from the inside.
- Do not make any hand movements in the area of the overhead control panel or deactivate (→ page 352) the **Sliding sunroof and roller sunblind** option in the settings for the MBUX interior assistant.

- ① If, after the car wash, you remove the wax from the windscreen and wiper rubbers, this will prevent smearing and reduce wiper noise.

### Information on using a high-pressure cleaner

**!** **WARNING** Risk of an accident when using high-pressure cleaners with round-spray nozzles

The water jet can cause externally invisible damage.

Components damaged in this way may unexpectedly fail.

- ▶ Do not use a high-pressure cleaner with round-spray nozzles.
- ▶ Have damaged tyres or chassis parts replaced immediately.

To avoid damage to your vehicle, observe the following when using a high-pressure cleaner:

- The key is at a minimum distance of 3 m away from the vehicle. Otherwise, the boot lid or a door could open unintentionally.

This also applies to the Digital Vehicle Key.

- Maintain a distance of at least 30 cm to the vehicle.
- **Vehicles with decorative films:** Parts of your vehicle are covered with a decorative film. Maintain a distance of at least 70 cm between the film-covered parts of the vehicle and the nozzle of the high-pressure cleaner. Move the high-pressure cleaner nozzle around whilst cleaning. The water temperature of the high-pressure cleaner must not exceed 60°C.
- Observe the information on the correct distance in the equipment manufacturer's operating instructions.
- Do not direct the nozzle of the high-pressure cleaner directly at sensitive parts, e.g. tyres, gaps, electrical components, batteries, illuminants or louvres.

### Washing the vehicle by hand

**!** NOTE Engine damage due to water ingress

- ▶ Take care not to point the water jet directly towards the air inlet grille below the bonnet.

Observe the relevant legal requirements (e.g. in some countries, washing by hand is permitted only in specially designated wash bays).

- ▶ Use a mild cleaning agent (e.g. car shampoo).
- ▶ Wash the vehicle with lukewarm water using a soft car sponge. When doing so, do not expose the vehicle to direct sunlight.
- ▶ Carefully hose the vehicle off with water and dry using a chamois.
- i** Observe the notes on the care of car parts (→ page 481).

### Notes on paintwork/matt finish paintwork care

To avoid damaging the paintwork and interfering with the driving assistance systems, please observe the following notes:

### Paint

- Insect remains: Soak with insect remover and rinse off the treated areas afterwards.
- Bird droppings: Soak with water and rinse off afterwards.
- Tree resin, oils, fuels and greases: remove by rubbing gently with a cloth soaked in petroleum ether or lighter fluid.
- Coolant and brake fluid: remove with a damp cloth and clean water.
- Tar stains: use tar remover.
- Wax: use silicone remover.
- Do not attach stickers, films or similar materials. Only have film attached to the bumper at a qualified specialist workshop.
- Remove dirt immediately, where possible.

### Matt finish

- Only use care products approved for Mercedes-Benz.
- Do not attach stickers, films or similar materials. Only have film attached to the bumper at a qualified specialist workshop.

- Do not polish the vehicle and light-alloy wheels.
- Only use car washes that correspond to the latest engineering standards.
- Do not use car wash programmes with a final hot wax treatment.
- Do not use paint cleaners, buffing or polishing products, gloss preservers, e.g. wax.

In the event of paintwork damage:

- Always have paintwork repairs carried out at a qualified specialist workshop.
- Make sure the radar sensors function (→ page 215).

### Notes on cleaning decorative films

Observe the "Notes on paintwork/matt finish paintwork care" (→ page 479). They also apply to matt decorative films.

Observe the notes on cleaning decorative films to avoid damage.

### **Cleaning**

- For cleaning, use plenty of water and a mild cleaning agent without additives or abrasive substances (e.g. a car shampoo approved for Mercedes-Benz).
- Remove dirt as soon as possible. Avoid rubbing too hard in order not to damage the decorative film irreparably.
- If there is dirt on the finish or if the decorative film is dull: use the paint cleaner recommended and approved for Mercedes-Benz.
- Insect remains: soak with insect remover and rinse off the treated areas afterwards.
- Bird droppings: soak with water and rinse off afterwards.
- To prevent water stains, dry a film-wrapped vehicle with a soft, absorbent cloth after every car wash.

### **Avoiding damage to the decorative film**

- The service life and colouring of decorative films are impaired by:
  - Sunlight
  - Temperature (e.g. hot air blower)

- Weather conditions
- Stone chippings and dirt
- Chemical cleaning agents
- Oily products

- Do not use polish on matt decorative film. Polishing will have the effect of shining the film-wrapped surface.
- Do not treat matt or structured decorative films with wax. Permanent stains may occur.

Scratches, corrosive deposits, areas affected by corrosion and damage caused by incorrect care cannot always be completely repaired. In this case, contact a qualified specialist workshop. You can obtain more information on care and cleaning agents from the manufacturer.

In the case of film-wrapped surfaces, visual differences may occur between the surfaces that were not protected by a decorative film after a decorative film has been removed.

- ① Have work or repairs to decorative films carried out at a qualified specialist workshop (e.g. at a Mercedes-Benz Service Centre).

## Notes on care of car parts

**⚠ WARNING** Risk of entrapment if the windscreen wipers are switched on while the windscreen is being cleaned

If the windscreen wipers are set in motion while you are cleaning the windscreen or wiper blades, you can be trapped by the wiper arm.

▶ Always switch off the windscreen wipers and the vehicle before cleaning the windscreen or wiper blades.

To avoid damage to the vehicle, observe the notes on cleaning and care of the following car parts:

### Wheels and rims

- Use water and acid-free alloy wheel cleaners.
- Do not use acidic alloy wheel cleaners to remove brake dust. This could damage wheel bolts and brake components.
- To avoid corrosion of the brake discs and pads, drive the vehicle for a few minutes after cleaning before parking it. The brake discs and pads will warm up and dry out.

## Windows

**⚠ NOTE** Damage to electronic components due to excess fluids

When cleaning the windows from the inside, fluids such as cleaning agents or water may run down and get behind trim parts of the vehicle interior and cause damage to electronic components.

- ▶ Use cleaning agents as sparingly as possible.
- ▶ Immediately absorb any excess fluids.

- Clean the windows inside and outside with a damp cloth and with a cleaning agent recommended for Mercedes-Benz.
- Do not use dry cloths or abrasive or solvent-based cleaning agents to clean the insides of windows.
- ⓘ After changing the wiper blades or treating the vehicle with wax, clean the windscreen thoroughly with cleaning agents recommended for Mercedes-Benz. Failure to observe the

application instructions may result in damage, smear marks or dazzling spots.

- ⓘ Remove external fogging or dirt on the windscreen in front of the multifunction camera. Otherwise, driving systems and driving safety systems may be impaired or unavailable (→ page 215).

### Wiper blades

- Move the wiper arms into the replacement position (→ page 162).
- With the wiper arms folded out, clean the wiper blades with a damp cloth.
- ⓘ Make sure that the wiper blades are coated. The coating may leave residue on a cloth. Do not rub the wiper blades excessively or clean them too often.

### Exterior lighting

- Clean the lenses with a wet sponge and mild cleaning agent (e.g. car shampoo).
- Use only cleaning agents or cleaning cloths that are suitable for plastic lenses.

**Sensors**

- Clean the sensors in the front and rear bumpers with a soft cloth and car shampoo (→ page 215).
- When using a high-pressure cleaner, maintain a minimum distance of 30 cm.

**Reversing camera and 360° camera**

- Open the camera cover with the multimedia system (→ page 270).
- Use clean water and a soft cloth to clean the camera lens.
- Do not use a high-pressure cleaner.

**Trailer hitch**

- Observe the notes on care in the trailer hitch manufacturer's operator manual.
- Do not clean the ball neck with a high-pressure cleaner or solvent.
- Remove traces of rust on the ball (e.g. using a wire brush).
- Remove dirt with a lint-free cloth.
- After cleaning, lightly oil or grease the ball head.

- ① Before using trailers with anti-torsional coupling, observe the manufacturer's operator manual.

**Notes on care of the interior**

**⚠ WARNING** Risk of injury from plastic parts breaking off after the use of solvent-based care products

Care and cleaning products containing solvents can cause surfaces in the cockpit to become porous. When the airbags are deployed, plastic parts may break away.

- ▶ Do not use any care or cleaning products containing solvents to clean the cockpit.

**⚠ WARNING** Risk of injury or fatal injuries from bleached seat belts

Bleaching or dyeing seat belts can severely weaken them.

This can, for example, cause seat belts to tear or fail in an accident.

- ▶ Never bleach or dye seat belts.

To avoid damage to the vehicle, observe the following notes on cleaning and care:

**Seat belts**

- Clean with lukewarm soapy water.
- Do not use chemical cleaning agents.
- Do not dry by heating them to over 80°C or exposing them to direct sunlight.

**Display**

- Switch off the display and let it cool down.
- Clean the surface carefully with a microfibre cloth and a suitable display care product (TFT-LCD).
- Do not use any other agents.

**Head-up display**

- Clean with a soft, non-static, lint-free cloth.
- Do not use cleaning agents.

**Plastic trim**

- Clean with a damp microfibre cloth.
- For heavy soiling: use a cleaning agent recommended for Mercedes-Benz.

- Do not attach stickers, films or similar materials.
- Do not allow cosmetics, insect repellent or sun cream to come into contact with the plastic trim.

#### Real wood and trim elements

- Clean with a microfibre cloth.
- Black piano-lacquer look: clean with a damp cloth and soapy water.
- For heavy soiling: use a cleaning agent recommended for Mercedes-Benz.
- Do not use solvent-based cleaning agents, polishes or waxes.

#### Roof lining

- Clean with a brush or dry shampoo.

#### Carpet


- Use a carpet and textile cleaning agent recommended for Mercedes-Benz.

#### Steering wheel made of genuine leather or DYNAMIC

##### NOTE Damage caused by wrong cleaners

▶ Do not use solvent-based cleaning agents such as tar remover or wheel cleaner; neither should you use polishes or waxes. Otherwise you may damage the finish.

- Clean with a damp cloth and 1% soapy water solution and then wipe with a dry cloth.
- For heavy soiling: use a cleaning agent recommended for Mercedes-Benz.
- Leather care: use a leather care agent that has been recommended for Mercedes-Benz.
- Do not allow the leather to become too damp.
- Do not use a microfibre cloth.

 Leather is a natural product. It exhibits natural surface properties such as differences in structure, marks caused by growth and injury or subtle colour differences. These surface properties are characteristics of leather and

not material faults. Leather is also subject to a natural ageing process during which the surface properties change.

#### Genuine leather seat covers

- Vacuum up dirt such as crumbs or dust and then clean the seat covers with a damp cotton cloth and wipe down with a dry cloth. Regularly clean the seat covers.
- For heavy soiling: use a leather care agent recommended for Mercedes-Benz aftercare.
- Leather care: use a leather care agent that has been recommended for Mercedes-Benz.
- Do not use a microfibre cloth.
- Do not allow the leather to become too damp.
- Do not use oil-based cleaning and care products.

**i** Leather is a natural product. It exhibits natural surface properties such as differences in structure, marks caused by growth and injury or subtle colour differences. These surface properties are characteristics of leather and not material faults. Leather is also subject to a natural ageing process during which the surface properties change.

Waves or wrinkling in the seat cover may occur due to the stress on the seat; this is caused by the natural leather material.

Regular cleaning and care of the leather reduces soiling, wear marks and ageing damage and thus significantly extends its life span. Clothing that can leave stains (e.g. jeans) may discolour the leather.

#### **DINAMICA seat covers**

- Vacuum up dirt such as crumbs or dust and then use a damp cloth to clean.
- Do not use a microfibre cloth.

#### **Imitation leather seat covers**

- Vacuum up dirt such as crumbs or dust and then use a damp cotton cloth and a 1% soap

solution to clean the entire seat cover. Do not spot clean.

- Use cleaning and care products recommended for Mercedes-Benz.
- Do not use a microfibre cloth.
- Do not use oil-based cleaning and care products.

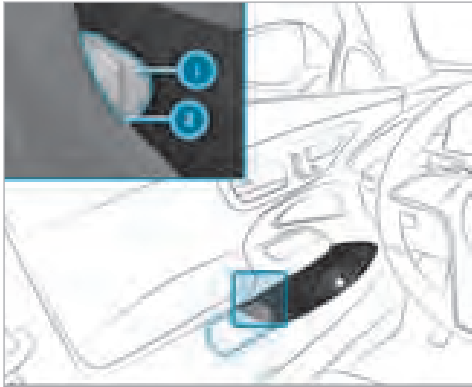
#### **Fabric seat covers**

- Vacuum up dirt such as crumbs or dust and then use a damp microfibre cloth and a 1% soap solution to clean the entire seat cover. Do not spot clean.
- Use cleaning and care products recommended for Mercedes-Benz.
- Do not use oil-based cleaning and care products.



## Emergency

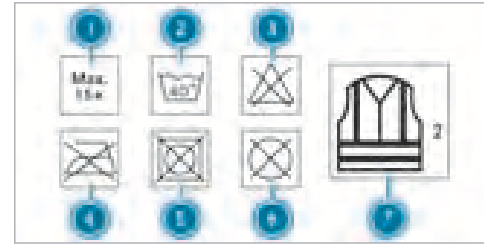
### Removing the safety vest



The safety vests are located in the safety vest compartments of the door compartment of all doors, under the armrests.

- ▶ To remove: pull out safety vest bag ① by the loop ②.

- ▶ Open the safety vest bag ① and pull out the safety vest.
  - ▶ To stow: fold the safety vest, roll it up and stow it in the safety vest bag ①.
  - ▶ Slide the safety vest bag ① along the lower edge of the armrest into the safety vest compartment. Make sure the loop ② hangs out so it is easily accessible.
- ⓘ For a new safety vest, remove the packaging film before sliding it into the safety vest compartment. Otherwise, it may cause unintentional slipping out or make it difficult to remove.  
Observe the legal requirements for each individual country.



- ① Maximum number of washes
- ② Maximum wash temperature
- ③ Do not bleach
- ④ Do not iron
- ⑤ Do not tumble dry
- ⑥ Do not dry clean
- ⑦ Class 2 safety vest

The requirements defined by the legal standard are only fulfilled if the safety vest is the correct size and is fully closed.

Replace the safety vest in the following cases:

- The reflective strips are damaged or dirty

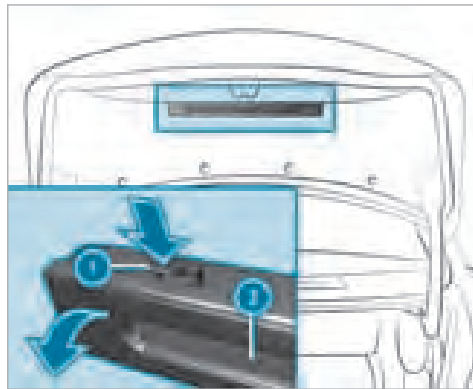
- The maximum permissible number of washes is exceeded
- The fluorescence property decreases, e.g. due to permanent exposure to sunlight.

Dispose of the safety vest in an environmentally friendly manner:

- Please contact your local waste disposal company.

### Warning triangle

#### Removing the warning triangle



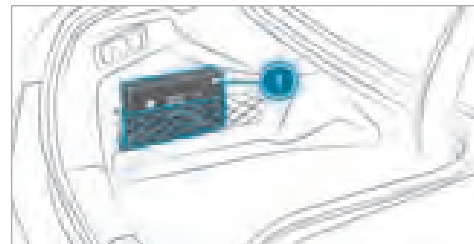
- ▶ Push both sides of warning triangle holder ① in the direction of the arrow and open it.
- ▶ Remove warning triangle ②.

The warning triangle is located in the boot lid.

#### Setting up the warning triangle

- ▶ Fold the side reflectors upwards to form a triangle and attach at the top using the upper press-stud.
- ▶ Fold the legs down and out to the side.

### First-aid kit (soft sided) overview



First-aid kit (soft sided) ① is in the boot in the left-hand stowage net.

## Removing the fire extinguisher

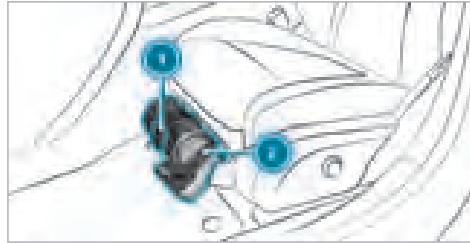
**⚠ WARNING** Risk of accident due to an incorrectly secured fire extinguisher in the driver's footwell

A fire extinguisher may impede pedal travel or block a depressed pedal.

This jeopardises the operating and road safety of the vehicle.

The fire extinguisher can be flung around and injure the driver or other vehicle occupants.

- ▶ Always store and secure the fire extinguisher in the bracket.
- ▶ Do not remove the fire extinguisher while driving.



- ▶ **Left-hand drive vehicle:** pull tab ① upwards.
- ▶ **Right-hand drive vehicle:** pull tab ① downwards.
- ▶ Remove fire extinguisher ②.

## Flat tyre

### Notes on flat tyres

**⚠ WARNING** Risk of accident due to a flat tyre

A flat tyre severely affects the driving characteristics as well as the steering and braking of the vehicle.

### Tyres without run-flat characteristics:

- ▶ Do not drive with a flat tyre.
- ▶ Change the flat tyre immediately with an emergency spare wheel or spare wheel. Alternatively, consult a qualified specialist workshop.

### Tyres with run-flat characteristics:

- ▶ Observe the information and warning notes on MOExtended tyres (run-flat tyres).

In the event of a flat tyre, the following options are available depending on your vehicle's equipment:

- **Vehicles with a TIREFIT kit:** you can seal the tyre so that it is possible to continue the journey for a short period of time. To do this, use the TIREFIT kit (→ page 488).
- **Vehicles with Mercedes me connect:** you can make a call for breakdown assistance via the overhead control panel in the case of a breakdown (→ page 429).
- **All vehicles:** change the wheel (→ page 519).

## TIREFIT kit storage location



- ① Tyre sealant bottle
- ② Tyre inflation compressor

The TIREFIT kit is located under the boot floor when delivered.

Depending on the vehicle version, the TIREFIT kit may be in a different position in the boot.

- ⓘ Depending on the power category (LK), the tyre inflation compressor weighs as follows:
  - LK2 – 12 V/15 A, 180 W, 0.9 kg

You can find information on the power category (LK) and/or electrical data on the back of the tyre inflation compressor.

The tyre inflation compressor is maintenance-free. If there is a malfunction, please contact a qualified specialist workshop.

## Using the TIREFIT kit

### Requirements:

- Tyre sealant bottle and tyre inflator compressor are ready for use (→ page 488).
- TIREFIT sticker is present.
- Gloves are present.

TIREFIT kit storage location: (→ page 488)

You can use TIREFIT tyre sealant to seal perforation damage of up to 4 mm, particularly those in the tyre contact surface. You can use TIREFIT in outside temperatures down to -20 °C.

**⚠ WARNING** Risk of accident when using tyre sealant

The tyre sealant may be unable to seal the tyre properly, especially in the following cases:

- there are large cuts or punctures in the tyre (larger than damage previously mentioned)
- the wheel rims have been damaged
- after journeys with very low tyre pressure or with flat tyres

- ▶ Do not continue driving.
- ▶ Consult a qualified specialist workshop.

**⚠ WARNING** Risk of injury and poisoning from tyre sealant

Tyre sealant is hazardous to health and causes irritation. Do not allow it to come into contact with your skin, eyes or clothing, and do not swallow it. Do not inhale any vapours. Keep the tyre sealant away from children.

Observe the following if you come into contact with the tyre sealant:

- ▶ Rinse off the tyre sealant from your skin using water immediately.
- ▶ If tyre sealant gets into your eyes, thoroughly rinse them using clean water immediately.
- ▶ If tyre sealant has been swallowed, thoroughly rinse out your mouth immediately and drink plenty of water. Do not induce vomiting and seek medical attention immediately.
- ▶ Change out of clothing which has come into contact with tyre sealant immediately.
- ▶ If an allergic reaction occurs, seek medical attention immediately.

**!** **NOTE** Overheating due to the tyre inflation compressor running too long

- ▶ Do not run the tyre inflation compressor for longer than ten minutes without interruption.

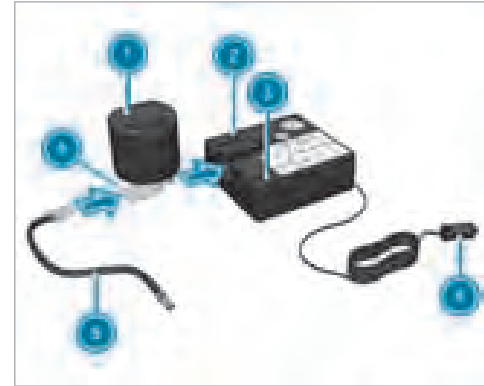
Comply with the manufacturer's safety notes on the sticker on the tyre inflation compressor.

Have the tyre sealant bottle replaced in a qualified specialist workshop every five years.

- ▶ Do not remove any foreign objects which have entered the tyre.



- ▶ Affix part ① of the TIREFIT sticker to the instrument cluster within the driver's field of vision.
- ▶ Affix part ② of the TIREFIT sticker near the valve on the wheel with the defective tyre.



- ▶ Pull plug ④ with the cable and hose ⑤ out of the tyre inflation compressor housing.
- ▶ Push the plug of hose ⑤ into flange ⑥ of tyre sealant bottle ① until the plug engages.
- ▶ Place tyre sealant bottle ① head downwards into recess ② of the tyre inflation compressor.



- ▶ Remove the valve cap from valve ⑦ on the faulty tyre.
- ▶ Screw filling hose ⑧ onto valve ⑦.
- ▶ Insert plug ④ into a 12-V-socket in your vehicle.
- ▶ Switch on the vehicle.
- ▶ Press on and off switch ③ on the tyre inflation compressor.  
The tyre inflation compressor is switched on. The tyre is inflated. First, tyre sealant is pumped into the tyre. The pressure may briefly rise to approximately 500 kPa (5 bar/73 psi).

### Do not switch off the tyre inflation compressor during this phase!

- ▶ Let the tyre inflation compressor run for a maximum of ten minutes.  
The tyre should then have attained a tyre pressure of at least 200 kPa (2.0 bar/29 psi).

If tyre sealant leaks out, make sure you clean the affected area as quickly as possible. It is preferable to use clean water.

If you get tyre sealant on your clothing, have it cleaned as soon as possible with perchloroethylene.

### If, after ten minutes, a tyre pressure of 200 kPa (2.0 bar/29 psi) has not been attained:

- ▶ Switch off the tyre inflation compressor.
- ▶ Unscrew the filling hose from the valve of the defective tyre.

Please note that tyre sealant may leak out when unscrewing the filling hose.

- ▶ Drive forwards or in reverse very slowly for approximately 10 m.

- ▶ Pump up the tyre again.  
After a maximum of ten minutes the tyre pressure must be at least 200 kPa (2.0 bar/29 psi).

**⚠ WARNING** Risk of accident due to the specified tyre pressure not being attained

If the specified tyre pressure is not attained after the specified time, the tyre is too badly damaged. The tyre sealant cannot repair the tyre in this instance.

The braking and driving characteristics may be greatly impaired.

- ▶ Do not continue driving.
- ▶ Consult a qualified specialist workshop.

### If, after ten minutes, a tyre pressure of 200 kPa (2.0 bar/29 psi) has been attained:

**⚠ WARNING** Risk of accident from driving with sealed tyres

A tyre temporarily sealed with tyre sealant impairs the handling characteristics and is not suitable for higher speeds.

- ▶ Adapt your driving style accordingly and drive carefully.
- ▶ Do not exceed the maximum speed limit with a tyre that has been repaired using tyre sealant.

- ▶ Observe the maximum permissible speed of 80 km/h for a tyre sealed with tyre sealant.
- ▶ Affix the upper section of the TIREFIT sticker to the instrument cluster in a location where it will be easily seen by the driver.

**!** **NOTE** Staining from leaking tyre sealant

After use, excess tyre sealant may leak out from the filling hose.

- ▶ Therefore, place the filling hose in the plastic bag that contained the TIREFIT kit.

**🌿 ENVIRONMENTAL NOTE** Environmental pollution caused by environmentally irresponsible disposal

Tyre sealant contains pollutants.

- ▶ Have the tyre sealant bottle disposed of professionally, e.g. at a Mercedes-Benz Service Centre.

- ▶ Switch off the tyre inflation compressor.
- ▶ Unscrew the filling hose from the valve of the defective tyre.
- ▶ Stow the tyre sealant bottle and the tyre inflation compressor.
- ▶ **Pull away immediately.**
- ▶ Stop driving after approximately ten minutes and check the tyre pressure using the tyre inflation compressor.  
The tyre pressure must now be at least 130 kPa (1.3 bar/19 psi).

**!** **WARNING** Risk of accident due to the specified tyre pressure not being attained

If the specified tyre pressure is not reached, the tyre is too badly damaged. The tyre sealant cannot repair the tyre in this instance.

The braking and driving characteristics may be greatly impaired.

- ▶ Do not continue driving.
- ▶ Consult a qualified specialist workshop.

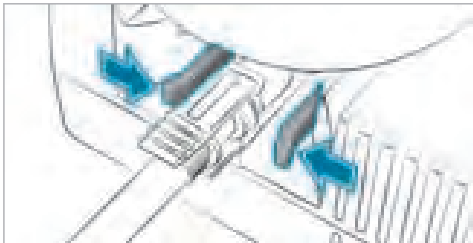
**Countries that have Mercedes-Benz Service24h:** you will find a sticker with the telephone number, e.g. on the B-pillar on the driver's side.

- ▶ Correct the tyre pressure if it is still at least 130 kPa (1.3 bar/19 psi). See the tyre pressure table on the fuel filler flap for values.
- ▶ **To increase the tyre pressure:** switch on the tyre inflation compressor.



- ▶ **To reduce the tyre pressure:** press pressure release button ① next to manometer ②.

- ▶ When the tyre pressure is correct, unscrew the filling hose from the valve of the sealed tyre.
- ▶ Screw the valve cap onto the valve of the sealed tyre.



- ▶ Pull the tyre sealant bottle out of the tyre inflation compressor. Press the locking tabs on the yellow cap together to do this. The filling hose stays on the tyre sealant bottle.
- ▶ Drive to the nearest qualified specialist workshop and have the tyre, tyre sealant bottle and filling hose replaced there.

## Battery (vehicle)

### Notes on the 12 V battery

**⚠ WARNING** Risk of an accident due to work carried out incorrectly on the battery

Work carried out incorrectly on the battery can, for example, lead to a short circuit. This can restrict functions relevant for safety systems and impair the operating safety of your vehicle.

You could lose control of the vehicle in the following situations in particular:

- when braking
  - in the event of abrupt steering manoeuvres and/or when the vehicle's speed is not adapted to the road conditions
- ▶ In the event of a short circuit or a similar incident, contact a qualified specialist workshop immediately.
  - ▶ Do not drive on.
  - ▶ Always have work on the battery carried out at a qualified specialist workshop.

- Further information on ABS (→ page 217)
- Further information on ESP® (→ page 218)

For safety reasons, Mercedes-Benz recommends that you only use batteries which have been approved for your vehicle by Mercedes-Benz.

### All vehicles except vehicles with a lithium-ion battery

**⚠ WARNING** Risk of explosion due to electrostatic charge

Electrostatic charge can ignite the highly explosive gas mixture in the battery.

- ▶ To discharge any electrostatic charge that may have built up, touch the metal vehicle body before handling the battery.

The highly flammable gas mixture is created while the battery is charging and during starting assistance.


**⚠ WARNING** Danger of chemical burns from the battery acid

Battery acid is caustic.



- ▶ Avoid contact with the skin, eyes or clothing.
- ▶ Do not lean over the battery.
- ▶ Do not inhale battery gases.
- ▶ Keep children away from the battery.
- ▶ Immediately rinse battery acid off thoroughly with plenty of clean water and seek medical attention immediately.

#### All vehicles

 **ENVIRONMENTAL NOTE** Environmental damage due to improper disposal of batteries



Batteries contain pollutants. It is illegal to dispose of them with the household rubbish.



Dispose of batteries in an environmentally responsible manner.

Take discharged batteries to a qualified specialist workshop or to a collection point for used batteries.

If you have to disconnect the 12 V battery, contact a qualified specialist workshop.

Comply with safety notes and take protective measures when handling batteries.



Risk of explosion if the 12 V battery is used improperly.



Fire, naked flames and smoking are prohibited when handling the battery. Avoid creating sparks.



Electrolyte or battery acid is corrosive. Avoid contact with the skin, eyes or clothing. Wear suitable protective clothing, in particular gloves, an apron and a face mask. Immediately rinse electrolyte or acid splashes off with clean water. Consult a doctor immediately.



Do not place heavy objects on the surface of the battery or use the battery to support a person in any way.



Wear safety glasses.



Keep children away.



Observe this Owner's Manual.

Observe the following if you do not intend to use the vehicle over an extended period of time:

- Connect the battery to a battery charger approved by Mercedes-Benz or consult a qualified specialist workshop to disconnect the battery.

#### Notes on the 48 V battery



**WARNING** Risk of an accident due to work carried out incorrectly on the battery

Work carried out incorrectly on the battery can, for example, lead to a short circuit. This can restrict functions relevant for safety systems.

tems and impair the operating safety of your vehicle.

You could lose control of the vehicle in the following situations in particular:

- when braking
- in the event of abrupt steering manoeuvres and/or when the vehicle's speed is not adapted to the road conditions

▶ In the event of a short circuit or a similar incident, contact a qualified specialist workshop immediately.

▶ Do not drive on.

▶ Always have work on the battery carried out at a qualified specialist workshop.

- Further information on ABS (→ page 217)
- Further information on ESP® (→ page 218)

For safety reasons, Mercedes-Benz recommends that you only use batteries which have been approved for your vehicle by Mercedes-Benz.



**ENVIRONMENTAL NOTE** Environmental damage due to improper disposal of batteries



Batteries contain pollutants. It is illegal to dispose of them with the household rubbish.



**Li-Ion** Dispose of batteries in an environmentally responsible manner. Take discharged batteries to a qualified specialist workshop or to a collection point for used batteries.

If you have to disconnect the 48 V battery, contact a qualified specialist workshop.

Comply with safety notes and take protective measures when handling batteries.



Risk of explosion if the 48 V battery is used improperly.



The surface of the 48 V battery may be hot.



Fire, naked flames and smoking are prohibited when handling the battery. Avoid creating sparks.



Electrolyte or battery acid is corrosive. Avoid contact with the skin, eyes or clothing. Wear suitable protective clothing, in particular gloves, an apron and a face mask. Immediately rinse off splashes of electrolyte or acid with plenty of clean water. Consult a doctor immediately.



Do not place heavy objects on the surface of the battery or use the battery to support a person in any way.



Do not perform any work on the battery. Always have any work on the battery carried out at a qualified specialist workshop. Do not disconnect the battery yourself. Do not remove the battery yourself. Do not attempt to open the battery.



Keep children away.



Wear safety glasses.



Observe this Owner's Manual.

If you do not want to use the vehicle for a long period of time, consult a qualified specialist workshop.

### Notes on starting assistance and charging the 12 V battery

#### All vehicles

When charging the battery and during starting assistance, always use the jump-start connection point in the engine compartment.

**!** **NOTE** Damage to the battery due to over-voltage

When charging using a battery charger without a maximum charging voltage, the battery or the on-board electronics may be damaged.

▶ Only use battery chargers with a maximum charging voltage of 14.8 V.

**!** **WARNING** Risk of explosion due to the ignition of hydrogen gas

If there is a short circuit or sparks are created, there is a danger of hydrogen gas igniting when you charge the battery.

- ▶ Make sure that the POSITIVE terminal of a connected battery does not come into contact with vehicle parts.
- ▶ Never place metal objects or tools on a battery.
- ▶ When connecting and disconnecting the battery, always observe the sequence of battery terminals described.
- ▶ During starting assistance, always take care to connect only battery terminals of identical polarity.
- ▶ During starting assistance, observe the sequence described for connecting and disconnecting the jump leads.

▶ Do not connect or disconnect the battery terminals with the engine running.

**!** **WARNING** Risk of explosion due to explosive mixture of gases

An explosive mixture of gases can escape from the battery during charging and starting assistance.

- ▶ Fire, naked flames, smoking and creating sparks must be avoided.
- ▶ Make sure there is adequate ventilation.
- ▶ Do not stand over the battery.

**!** **WARNING** Risk of explosion from a frozen battery

A discharged battery may freeze at temperatures slightly above or below freezing point.

During starting assistance or battery charging, battery gas can be released.

- ▶ Always allow a battery to thaw before charging it or performing starting assistance.

If the indicator/warning lamps in the instrument cluster do not light up at low temperatures, it is very likely that the discharged battery has frozen. In this case you may neither jump-start the vehicle nor charge the battery.

The service life of a battery that has been thawed may be dramatically shortened. The starting characteristics may be impaired, especially at low temperatures.

It is recommended that you have a thawed battery checked at a qualified specialist workshop.

### All vehicles

**!** **NOTE** Damage caused by numerous or extended attempts to start the engine

Numerous or extended attempts to start the engine may damage the catalytic converter due to non-combusted fuel.

▶ Avoid numerous and extended attempts to start the engine.

Observe the following points during starting assistance and when charging the battery:

- Only use undamaged jump lead/charging cables with a sufficient cross-section and insulated terminal clamps.
- Non-insulated parts of the terminal clamps must not come into contact with other metal parts while the jump lead/charging cable is connected to the battery/jump-start connection point.
- The jump lead/charging cable must not come into contact with any parts which may move when the engine is running.
- Always make sure that neither you nor the battery is electrostatically charged.
- Keep away from fire and naked flames.
- Do not lean over the battery.

Observe the additional following points when charging the battery:

- Only use battery chargers tested and approved for Mercedes-Benz.
- Read the battery charger's operating instructions before charging the battery.

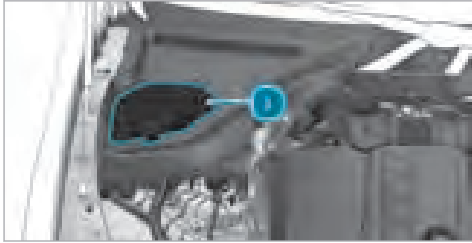
Observe the additional following points during starting assistance:

- Starting assistance may only be provided using vehicles, batteries or other jump start devices with a nominal voltage of 12 V.
- The vehicles must not touch.
- **Vehicles with a petrol engine:** jump-start the vehicle only when the engine and exhaust system are cold.

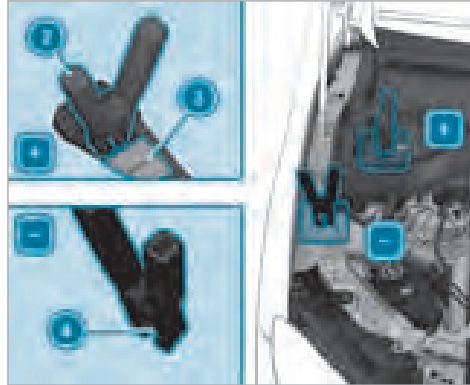
### Starting assistance and charging the 12 V battery

#### Preparing starting assistance/charging

- ▶ Secure the vehicle by applying the electric parking brake.
- ▶ Switch the transmission to position **P**.
- ▶ Switch off the vehicle and all electrical consumers.
- ▶ Open the bonnet.



- ▶ Open cover ① of the jump-starting connection points.



- ▶ Open cover ③ of positive contact ② of the jump-starting connection points.

### Starting assistance

- ▶ Connect positive contact ② on your vehicle to the positive terminal of the donor battery using the jump lead. Always begin with positive contact ② on your own vehicle first.

- ▶ Start the engine of the donor vehicle and run it at idling speed.
- ▶ Connect the negative terminal of the donor battery to earth point ④ of your vehicle using the jump lead. Begin with the donor battery first.
- ▶ Start the engine of your own vehicle.
- ▶ Let the engines run for several minutes.
- ▶ Before disconnecting the jump leads, switch on an electrical consumer in your own vehicle, e.g. the rear window heater or the lighting.

When the starting assistance procedure is complete:

- ▶ First, remove the jump leads from earth point ④ and the negative terminal of the donor battery, then from positive contact ② and the positive terminal of the donor battery. Begin each time with the contacts on your own vehicle first.
- ▶ After removing the jump leads, close cover ③ of positive contact ②.
- ▶ Close cover ①.

Further information can be obtained at a qualified specialist workshop.

## Charging

- ▶ Connect positive contact ② of the vehicle to the positive terminal of the charger using the charging cable. Always begin with positive contact ② of the vehicle.
- ▶ Connect the negative terminal of the charger and earth point ④ on the vehicle with the charging cable. Start with the charger.
- ▶ Start the charging process.

When the charging process is complete:

- ▶ First, remove the charging cable from earth point ④ and the negative terminal of the charger, then from positive contact ② and the positive terminal of the charger. Begin each time with the contacts of the vehicle.
- ▶ After removing the charging cable, close cover ③ of positive contact ②.
- ▶ Close cover ①.

Further information can be obtained at a qualified specialist workshop.

## Replacing the 12 V battery

- ▶ Observe the notes on the 12 V battery (→ page 492).

Mercedes-Benz recommends that you have the 12 V battery replaced at a qualified specialist workshop, e.g. at a Mercedes-Benz Service Centre.

Observe the following notes if you want to replace the battery yourself:

- Always replace a faulty battery with a battery which meets the specific vehicle requirements.

The vehicle is equipped with an AGM (Absorbent Glass Mat) technology battery or a lithium-ion battery. Full vehicle functionality is only guaranteed with an AGM battery or lithium-ion battery. For safety reasons, Mercedes-Benz recommends that you only use batteries which have been tested and approved for your vehicle by Mercedes-Benz.

- Carry over detachable parts, such as vent hoses, elbow fittings or terminal covers from the battery being replaced.
- Make sure that the vent hose is always connected to the original opening on the side of the battery.  
Fit any existing or supplied cell caps.  
Otherwise, gases or battery acid could escape.
- Make sure that detachable parts are reconnected in the same way.

## Tow-starting or towing away

### Permitted towing methods (not plug-in hybrid)

#### **!** NOTE Damage from automatic braking

If one of the following functions is activated, the vehicle will brake automatically in certain situations:

- Active Brake Assist
- Active Distance Assist DISTRONIC

- HOLD function
- Active Parking Assist

To avoid damage to the vehicle, deactivate these systems in the following or similar situations:

- ▶ When towing.
- ▶ In a car wash.

Mercedes-Benz recommends transporting your vehicle in the case of a breakdown, rather than towing it away.

For towing with both axles on the ground, use a tow rope or tow rod. Do not use tow bar systems.

**!** **NOTE** Damage to the vehicle due to towing away incorrectly

- ▶ Observe the instructions and notes on towing away.

### Vehicles with rear wheel drive

#### Permitted towing methods

Both axles on the ground	Yes, for a maximum of 50 km at 50 km/h
Front axle raised	No
Rear axle raised	Yes, if the steering wheel is fixed in the centre position with a steering wheel lock

### 4MATIC vehicles

#### Permitted towing methods

Both axles on the ground	Yes, for a maximum of 50 km at 50 km/h
Front axle raised	No
Rear axle raised	No

**Towing with a raised axle:** towing should be performed by a towing company.

### Towing the vehicle with both axles on the ground

- ▶ Observe the notes on the permitted towing methods.
- ▶ Make sure that the battery is connected and charged.

Observe the following points when the battery is discharged:

- The vehicle cannot be started.
- The electric parking brake cannot be released or applied.
- **Vehicles with automatic transmission:** the transmission cannot be shifted to position **N** or **P**.
- ⓘ **Vehicles with automatic transmission:** if the transmission cannot be shifted to position **N** or if the display does not show anything, transport the vehicle (→ page 502, 501). A towing vehicle with lifting equipment is required for vehicle transportation.

**!** **NOTE** Damage due to towing away at excessively high speeds or over long distances

The drivetrain could be damaged when towing at excessively high speeds or over long distances.

- ▶ A towing speed of 50 km/h must not be exceeded.
- ▶ A towing distance of 50 km must not be exceeded.

**!** **WARNING** Risk of accident when towing a vehicle which is too heavy

If the vehicle to be tow-started or towed away is heavier than the permissible gross mass of your vehicle, the following situations can occur:

- the towing eye may become detached.
  - the vehicle/trailer combination may swerve or overturn.
- ▶ Before tow-starting or towing away, check if the vehicle to be tow-started or

towed away exceeds the permissible gross mass.

If a vehicle has to be tow-started or towed away, its permissible gross mass must not exceed the permissible gross mass of the towing vehicle.

- ▶ Information on the permissible gross mass of the vehicle can be found on the vehicle identification plate (→ page 630).
- ▶ **Vehicles with automatic transmission:** do not open the driver's door or front-passenger door; the transmission otherwise automatically shifts to position **P**.
- ▶ Fit the towing eye (→ page 504).
- ▶ Fasten the towing device.

**!** **NOTE** Damage due to incorrect connection of the tow bar

- ▶ Only connect the tow rope or tow bar to the towing eyes.

- ▶ Deactivate the automatic locking mechanism (→ page 90).

- ▶ Do not activate the HOLD function.
- ▶ Deactivate tow-away protection (→ page 109).
- ▶ Deactivate Active Brake Assist (→ page 248).
- ▶ **Vehicles with automatic transmission:** shift to position **N**.
- ▶ Release the electric parking brake.

**!** **WARNING** Risk of accident due to limited safety-related functions during the towing process

Safety-related functions are limited or no longer available in the following situations:

- the vehicle is switched off.
- the brake system or power steering system is malfunctioning.
- the energy supply or the on-board electrical system is malfunctioning.

When your vehicle is towed away, significantly more effort may be required to steer and brake than is normally required.



- ▶ Use a tow bar.
- ▶ Make sure that the steering wheel can move freely before towing the vehicle away.

**!** **NOTE** Damage due to excessive tractive power

If you pull away sharply, the tractive power may be too high and the vehicles could be damaged.

- ▶ Pull away slowly and smoothly.

### Loading the vehicle for transport (vehicles without AIRMATIC)

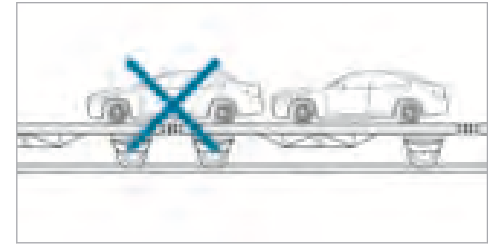
- ▶ Observe the notes on towing away (→ page 499).
  - ▶ Connect the towing device to the towing eye in order to load the vehicle.
- i** You can also attach the tow bar to the trailer hitch.

- ▶ Shift the automatic transmission to position **N**.

**i** The automatic transmission may be locked in position **P** in the event of damage to the electrics. To shift to **N**, provide the on-board electrical system with power (→ page 496).

- ▶ Load the vehicle onto the transporter.
- ▶ Shift the automatic transmission to position **P**.
- ▶ Use the electric parking brake to secure the vehicle against rolling away.
- ▶ Only secure the vehicle by the wheels.

### 4MATIC vehicles/vehicles with automatic transmission



- ▶ Make sure that the front and rear axles come to rest on the same transportation vehicle.

**!** **NOTE** Damage to the drive train due to incorrect positioning of the vehicle

- ▶ Do not position the vehicle above the connection point of the transport vehicle.

## Loading the vehicle for transport (vehicles with AIRMATIC)

### Requirements

- The vehicle must be stationary.
- The vehicle must be switched off.
- The driver's display must be in the initial state with no menus open (→ page 305). Transport is also possible with a warning message visible.
- The 12 V battery is charged.

### ▶ Select **vehicle transport**.

**i** The noise certification mode is intended exclusively for the technical test organisation. It restricts the drive power of the vehicle and must not be used in customer operation.

- ▶ If necessary, set the system language (→ page 358).
- ▶ Observe the notes on towing away (→ page 499).
- ▶ Connect the towing device to the towing eye in order to load the vehicle.

- i** **Vehicles with a trailer hitch:** you can also attach the tow bar to the trailer hitch.
- ▶ Switch on the power supply (→ page 181).
- ▶ Shift the transmission to position **N**.
- i** The transmission may be locked in position **P** in the event of damage to the electrics. To shift to **N**, provide the on-board electrical system with power (→ page 496).

**!** **NOTE** Possible damage to the vehicle when loading or unloading

When loading or unloading, the vehicle must be raised to transport level.

If the transport settings are not shown or the **Vehicle not ready for loading** message is displayed, the vehicle may not be loaded or unloaded.

- ▶ If required, raise the vehicle to transport level again.
- ▶ A vehicle that cannot be raised to transport level may not be loaded or unloaded using a ramp. Consult a qualified specialist workshop.



**!** **WARNING** Risk of accident due to activated transport level





If the vehicle is raised to transport level, driving and driving safety systems have only limited availability and the view from the vehicle is restricted.

Driving safety is severely restricted and there is a risk of an accident!

- ▶ Do not use transport level in normal road operation.
- ▶ Only activate and use transport level to load the vehicle and when not on public roads.

- ▶ Ensure that no persons or obstacles are located in the area surrounding the vehicle.

### Raising the vehicle to transport level

- ▶ Press the  button for at least five seconds.
- ▶ Immediately press and hold the  button for at least one second.  
The **For transport level, switch vehicle on** message is displayed.
- ▶ Switch on the vehicle(→ page 182).  
The transport settings are displayed.
- ▶ Swipe downward to select **Transport level** and press .
- ▶ The vehicle is raised and the **Vehicle rising... Do not drive on ramp** message is displayed for 5 seconds. The raising process can last up to 60 seconds and can be cancelled with the  button.
- ▶ When raising, do not switch off the vehicle.

While the vehicle is being raised, you can manoeuvre at a maximum speed of 40 km/h.




- ▶ Before loading the vehicle, wait until the transport level has been reached and the **Transport level** status is shown.
- ⓘ If the vehicle is raised to transport level, the transport settings will continue to be shown even after a restart. Operation of the driver's display is restricted.

When the vehicle is at transport level, it is lowered again in the following situations:

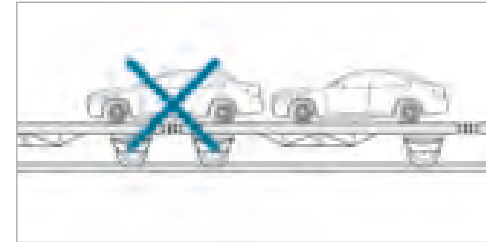
- When driving faster than 40 km/h.
- If the 12 V battery is discharged.

The vehicle is adjusted to the height of the last active level.

### Transporting the vehicle

- ▶ Load the vehicle onto the transporter.
- ▶ Shift the transmission to position .
- ▶ Use the electric parking brake to secure the vehicle against rolling away.
- ▶ Switch off the vehicle and the power supply.
- ▶ Only secure the vehicle by the wheels.

### 4MATIC vehicles



- ▶ Make sure that the front and rear axles come to rest on the same transportation vehicle.

**!** **NOTE** Damage to the drive train due to incorrect positioning of the vehicle

- ▶ Do not position the vehicle above the connection point of the transport vehicle.

### Unloading the vehicle

- ▶ Make sure that the vehicle is raised to transport level before unloading (→ page 502, 501).

### Lowering the vehicle after unloading

- ▶ Switch on the power supply.
- ▶ Start the vehicle.
- ▶ In Transport Settings, swipe up to select the **Standard level** and press **OK**.  
The vehicle is adjusted to the height of the last active level and the **Lowering vehicle** message is displayed.
- ▶ After the vehicle has been lowered, press the **↶** button for at least two seconds. Transport Settings closes.

### Towing eye storage location

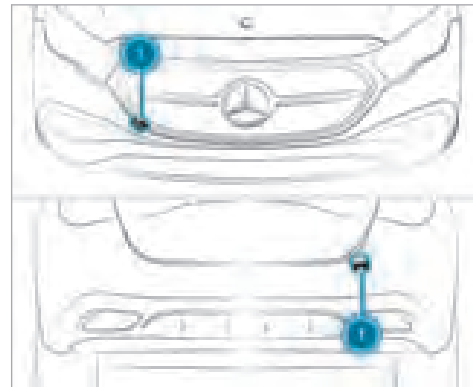
#### Not plug-in hybrid



The towing eye ① is located under the boot floor in the loading sill.

- ① Depending on the vehicle version, the towing eye is in a different position in the boot.

### Fitting and removing the towing eye



- ▶ Press the mark on cover ① inwards and remove.
- ▶ Screw in the towing eye clockwise as far as it will go and tighten.

**Vehicles with a trailer hitch:** vehicles with a trailer hitch do not have a rear bracket for the towing eye. Fasten the tow bar to the trailer hitch.

- ▶ After removing the towing eye, secure the cover ① in the bumper.

**!** **NOTE** Damage to the vehicle due to incorrect use of the towing eye or trailer hitch

When a towing eye or trailer hitch is used to recover a vehicle, the vehicle may be damaged in the process.

- ▶ Only use the towing eye or trailer hitch to tow away or tow start the vehicle.
- ▶ Do not use the towing eye or trailer hitch to tow the vehicle during recovery.

## Tow-starting the vehicle

### Vehicles with automatic transmission

**!** **NOTE** Damage to the automatic transmission due to tow-starting

The automatic transmission may be damaged in the process of tow-starting vehicles with automatic transmission.

- ▶ Vehicles with automatic transmission must not be tow-started.

- ▶ Vehicles with an automatic transmission must not be tow-started.

## Electrical fuses

### Notes on electrical fuses

**!** **WARNING** Risk of accident and injury due to overloaded lines

If you manipulate or bridge a faulty fuse or if you replace it with a fuse with a higher amperage, the electric line could be overloaded.

This could result in a fire.

- ▶ Always replace faulty fuses with specified new fuses containing the correct amperage.

**!** **NOTE** Damage due to incorrect fuses

Using incorrect fuses can result in damage to electrical components or systems or their functions being considerably restricted.

- ▶ Use only fuses approved for Mercedes-Benz with the respective specified fuse rating.

Blown fuses must be replaced with fuses of the same rating, which you can recognise by the colour and the label. The fuse ratings and further information to be observed can be found in the fuse assignment diagram.

**Fuse assignment diagram:** on the fuse box in the boot (→ page 508).

**!** **NOTE** Damage or malfunctions caused by moisture

Moisture may cause damage to the electrical system or cause it to malfunction.

- ▶ When the fuse box is open, make sure that no moisture can enter the fuse box.

- ▶ When closing the fuse box, make sure that the seal of the lid is positioned correctly on the fuse box.

If the newly inserted fuse also blows, have the cause traced and rectified at a qualified specialist workshop.

Ensure the following before replacing a fuse:

- The vehicle is secured against rolling away.
- All electrical consumers are switched off.
- The vehicle is switched off.

The electrical fuses are located in various fuse boxes:

- Fuse box in the engine compartment on the driver's side (→ page 506)
- Fuse box on the driver's side of the cockpit (→ page 507)
- Fuse box in the front passenger footwell (→ page 508)
- Fuse box in the boot (→ page 508)

### Opening and closing the fuse box in the engine compartment

#### Requirements

- A dry cloth and a screwdriver are available.

Observe the notes on electrical fuses (→ page 505).

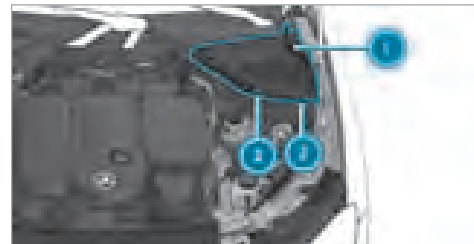
#### Opening

**⚠ WARNING** Risk of injury from using the windscreen wipers when the bonnet is open

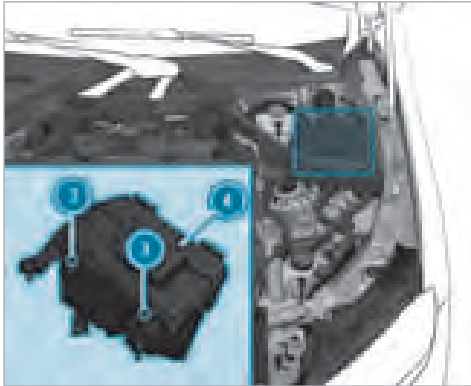
If the windscreen wipers start moving when the bonnet is open, you could be trapped by the wiper linkage.

- ▶ Always switch off the windscreen wipers and the vehicle first if you need to open the bonnet.

- ▶ Open the bonnet (→ page 471).



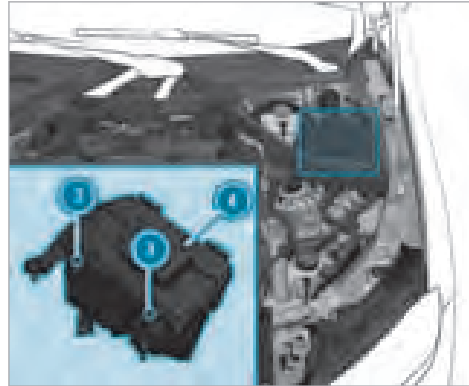
- ▶ Turn both retaining clips ② on cover ① on the driver's side a quarter-turn clockwise.
- ▶ Fold cover ① upwards.



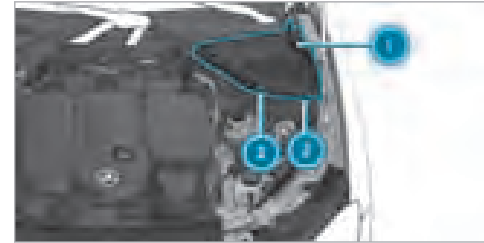
- ▶ Remove any existing moisture from the fuse box using a dry cloth.
- ▶ Loosen screws ③ and remove fuse box lid ④ from the top.

### Closing

- ▶ Check whether the seal is positioned correctly in lid ④.



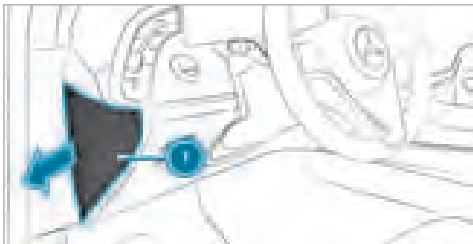
- ▶ Insert lid ④ into the bracket at the rear of the fuse box.
- ▶ Fold down lid ④ of the fuse box and tighten screws ③.



- ▶ Fold down cover ①.
- ▶ Turn both retaining clips ② on cover ① a quarter-turn anti-clockwise.
- ▶ Close the bonnet.

### Opening and closing the fuse box in the cockpit

- Observe the notes on electrical fuses (→ page 505).



Fuse box ① is on the driver's side on the side of the cockpit under a cover.

- ▶ Open cover ① in the direction of the arrow and remove it.
- ▶ Mercedes-Benz recommends you have the fuse box opened at a Mercedes-Benz Service Centre.

### Opening and closing the fuse box in the front passenger footwell

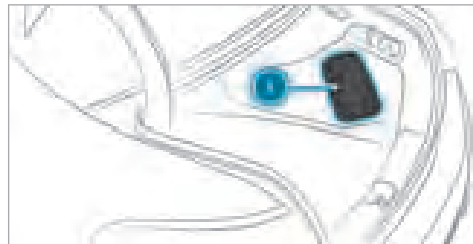
Observe the notes on electrical fuses (→ page 505).



- ▶ **To open:** fold out and remove cover ①.
- ▶ **To close:** reinsert cover ①.

### Opening and closing the fuse box in the boot

Observe the notes on electrical fuses (→ page 505).



- ▶ Open cover ①.



### Notes on noise or unusual handling characteristics

Make sure there are no vibrations, noises or unusual handling characteristics when the vehicle is in motion. This may indicate that the wheels or tyres are damaged. Hidden tyre damage could also be causing the unusual handling characteristics.

If you suspect that a tyre is defective, reduce your speed immediately and have the tyres and wheels checked at a qualified specialist workshop.

### Notes on regularly inspecting wheels and tyres

**⚠ WARNING** Risk of injury due to damaged tyres

Damaged tyres can cause tyre pressure loss.

- ▶ Check the tyres regularly for signs of damage and replace any damaged tyres immediately.

**⚠ WARNING** Risk of aquaplaning due to insufficient tyre tread

Insufficient tyre tread will result in reduced tyre grip.

The risk of aquaplaning is increased on wet roads, especially when the speed of the vehicle is not adapted to suit the conditions.

- ▶ Thus, you should regularly check the tread depth and the condition of the tread across the entire width of all tyres.

Minimum tread depth for:

- Summer tyres: 3 mm
- M+S tyres: 4 mm
- ▶ For safety reasons, replace the tyres before the legally-prescribed limit for the minimum tread depth is reached.

Carry out the following checks on all wheels regularly, at least once a month or as required, for example, prior to a long journey or driving off-road:

- Check the tyre pressure (→ page 510).

- Visually inspect wheels and tyres for damage.
- Check the valve caps.
- Visual check of the tyre tread depth and the tyre contact surface across the entire width. The minimum tread depth for summer tyres is 3 mm and for winter tyres 4 mm.

### Notes on snow chains

**⚠ WARNING** Risk of accident due to incorrectly fitted snow chains

If you have fitted snow chains to the front wheels, they may drag against the vehicle body or chassis components.

- ▶ Never fit snow chains to the front wheels.
- ▶ Only fit snow chains on the rear wheels in pairs.

**!** **NOTE** Damage to components of the vehicle body or chassis due to fitted snow chains

If you fit snow chains to the front wheels of 4MATIC vehicles, you may damage components of the vehicle body or chassis.

▶ Only fit snow chains to the rear wheels of 4MATIC vehicles.

**!** **NOTE** Damage to wheel trims through fitted snow chains

If you fit snow chains on aluminium wheels you could damage the wheel trims.

▶ Remove the wheel trims from the aluminium wheels before fitting snow chains.

Observe the following notes when using snow chains:

- Snow chains are only permissible for certain wheel/tyre combinations. You can obtain information about this from a Mercedes-Benz Service Centre.

- For safety reasons, only use snow chains that have been specifically approved for your vehicle by Mercedes-Benz, or snow chains with the same quality standard.
- Comply with the installation instructions of the snow chain manufacturer.
- If snow chains are fitted, the maximum permissible speed is 50 km/h.
- **Vehicles with Active Parking Assist:** do not use Active Parking Assist when snow chains are fitted.
- **Vehicles with level control:** if snow chains are fitted, only drive at raised vehicle level (→ page 262).
- ⓘ You can permanently limit the maximum speed for driving with winter tyres (→ page 227).
- ⓘ You can deactivate ESP® to pull away (→ page 220). This allows the wheels to spin, achieving an increased driving force.

### Activating or deactivating snow chain mode

Multimedia system:



▶ Activate or deactivate **Snow chain mode**.

When the function is active, the vehicle behaves as if snow chains were installed. For example, the maximum steering movement of the rear wheels is limited and the turning circle is thus increased.

Additionally, parts of the driving and driving safety systems are not available when snow chain mode is active.

### Tyre pressure

#### Notes on tyre pressure

**!** **WARNING** Risk of accident due to insufficient or excessive tyre pressure

Underinflated or overinflated tyres pose in particular the following risks:

- The tyres can burst.

- The tyres can wear excessively and/or unevenly.
  - The driving characteristics as well as the steering and braking characteristics may be greatly impaired.
- ▶ Comply with the recommended tyre pressure and check the tyre pressure of all tyres, including the spare wheel, regularly:
- monthly
  - when the load changes
  - before embarking on a longer journey
  - if operating conditions change, e.g. off-road driving
- ▶ Adjust the tyre pressure, if necessary.

Tyre pressure which is too high or too low can:

- Shorten the service life of the tyres.
- Cause increased tyre damage.
- Adversely affect driving characteristics and thus driving safety, e.g. due to aquaplaning.

**⚠ WARNING** Risk of accident due to repeated pressure drop in the tyres

The wheels, valves or tyres could be damaged.

Too low a tyre pressure can lead to the tyres bursting.

- ▶ Examine the tyres for foreign objects.
- ▶ Check whether the tyre has a puncture or the valve has a leak.
- ▶ If you are unable to rectify the damage, contact a qualified specialist workshop.

Information on the recommended tyre pressure for the vehicle's factory-fitted tyres can be found on the tyre pressure table on the inside of the fuel filler flap (→ page 511).

Use a suitable pressure gauge to check the tyre pressure. The outer appearance of a tyre does not permit any reliable conclusion about the tyre pressure.

Only correct tyre pressures when the tyres are cold. Conditions for cold tyres:

- The vehicle has been parked with the tyres out of direct sunlight for at least three hours.

- The vehicle has travelled less than 1.6 km.

The vehicle's tyres heat up when driving. As the temperature of the tyres increases, so too does the tyre pressure.

#### Notes on trailer operation

Always inflate the rear axle tyres to the recommended tyre pressures on the tyre pressure table for increased load.

#### Tyre pressure table

The tyre pressure table is on the inside of the fuel filler flap.

		1/2	3/4
195/55 R16	1000		
	10000		
205/55 R16	1000		
	10000		
225/55 R16	1000		
	10000		

A 231 004 07 00

The tyre pressure table shows the recommended tyre pressure for all tyres approved for this vehicle. The recommended tyre pressures apply for cold tyres under various operating conditions, i.e. loading and/or speed of the vehicle.

If one or more tyre sizes precede a tyre pressure, the following tyre pressure information is only valid for those tyre sizes and their respective load condition.

If the preceding tyre sizes are complemented by the symbol, the tyre pressure information following shows alternative tyre pressures. Fuel consumption may then increase slightly.

The load conditions "partially laden" and "fully laden" are defined in the table for different numbers of passengers and amounts of luggage. The actual number of seats may differ from this.

### Tyre pressure monitoring system

#### ■ Function of the tyre pressure monitoring system

The system checks the tyre pressure and the tyre temperature of the tyres fitted to the vehicle by means of a tyre pressure sensor.

The tyre pressure and the tyre temperature appear in the driver's display.

If there is a substantial pressure loss or if the tyre temperature is excessive, you will be warned with display messages (→ page 718) or the warning lamp in the driver's display (→ page 747).

The tyre pressure monitoring system is only an aid. It is the driver's responsibility to set the tyre pressure to the recommended cold tyre pressure suitable for the operating situation.

In most cases, the tyre pressure monitoring system will automatically update the new reference values after you have changed the tyre pressure. You can, however, also update the reference values by restarting the tyre pressure monitoring system manually (→ page 513).

#### System limits

The system may be impaired or may not function particularly in the following situations:

- incorrect reference values were taught in
- sudden pressure loss caused by a foreign object penetrating the tyre, for example
- there is a malfunction caused by another radio signal source

#### ■ Checking the tyre pressure with the tyre pressure monitoring system

##### Requirements

- The vehicle is switched on.

Driver's display:

→ [Home] >> Service

▶ Press [OK] to confirm.

One of the following displays appears:

- Current tyre pressure of each wheel:



- **Tyre pressures will be displayed after a few minutes of driving:** current values are not yet known to the system. The pressure/temperature values of each tyre are displayed as soon as they are known to the system.
- **Tyre pressure monitor active:** the teach-in process of the system is not yet complete. The tyre pressures are already being monitored.

▶ Compare the current tyre pressure with the recommended tyre pressure for the current operating condition (→ page 511). Additionally, observe the notes on cold tyres (→ page 510).

❗ The values displayed in the driver's display may deviate from those of the tyre pressure gauge as they refer to sea level. At high elevations, the tyre pressure values indicated by a tyre pressure gauge are higher than those shown in the driver's display.

### Restarting the tyre pressure monitoring system

#### Requirements:

- The recommended tyre pressure is correctly set for the respective operating status on each of the four wheels (→ page 510).

Restart the tyre pressure monitoring system in the following situations:

- The tyre pressure has changed.
- The wheels or tyres have been changed or newly fitted.

Driver's display:

→ [Home] >> Service

- ▶ Select **Tyre pressure** and confirm with [OK].
- ▶ Swipe downwards on Touch Control on the steering wheel. The **Use current tyre pressures as new reference values?** message is shown in the driver's display.
- ▶ Select **Yes** and confirm the restart with [OK]. The **Tyre pressure monitor restarted** message is shown in the driver's display.

Current warning messages are deleted and the yellow [TPMS] warning lamp goes out.

After you have been driving for a few minutes, the system checks whether the current tyre pressures are within the specified range. The current tyre pressures are then accepted as reference values and monitored.

If the tyre pressure levels are not within the specified range, the **Please correct tyre pressure** message appears.

## Tyre pressure loss warning system

### Function of the tyre pressure loss warning system

The tyre pressure loss warning system warns the driver by means of display messages when there is a severe tyre pressure loss.

### System limits

The system may be impaired or may not function particularly in the following situations:

- incorrect reference values were taught in
- sudden pressure loss caused by a foreign object penetrating the tyre, for example
- an even pressure loss on more than one tyre occurs

The system has a restricted or delayed function particularly in the following situations:

- poor ground conditions, e.g. snow or gravel
- driving with snow chains
- when adopting a very sporty driving style with high cornering speeds or sudden acceleration
- driving with a very heavy or large trailer

- driving with a high load

The tyre pressure loss warning system is only an aid. It is the driver's responsibility to set the tyre pressure to the recommended cold tyre pressure suitable for the operating situation and to check it.

Be sure to also observe the following further related subjects:

- Notes on tyre pressure (→ page 510)
- Display messages about the tyres (→ page 718)

### Restarting the tyre pressure loss warning system

#### Requirements:

- The recommended tyre pressure is correctly set for the respective operating condition on each of the four wheels (→ page 510).

Restart the tyre pressure loss warning system in the following situations:

- The tyre pressure has changed.
- The wheels or tyres have been changed or newly fitted.

Driver's display:

↩️ 🏠 ➡️ Service

- ▶ Select **Tyre pressure** and confirm with **OK**. The **Run Flat Indicator active** message is shown in the driver's display.
- ▶ To initiate a restart, press **OK** on the steering wheel. The **Are the current pressure values OK?** message is shown in the driver's display.
- ▶ Select **Yes**.
- ▶ To confirm restart, press **OK** on the steering wheel. The **Run Flat Indicator restarted** message is shown in the driver's display.

Be sure to also observe the following further related subjects:

- Notes on tyre pressure (→ page 510)

## Wheel change

### Notes on selecting, fitting and replacing tyres

**⚠ WARNING** Risk of accident due to incorrect wheel and tyre dimensions

If wheels and tyres of the wrong size are fitted, the service brakes or components in the brake system and in the wheel suspension may be damaged.

▶ Always replace wheels and tyres with those that fulfil the specifications of the original part.

For wheels, pay attention to the following:

- Designation
- Type

For tyres, pay attention to the following:

- Designation
- Manufacturer
- Type

**⚠ WARNING** Risk of injury through exceeding the specified tyre load-bearing capacity or the permissible speed rating

Exceeding the load-bearing capacity of the tyres can lead to tyre damage and could cause the tyres to explode.

- ▶ Therefore, only use tyre types and sizes approved for your vehicle model.
- ▶ Observe the tyre load-bearing capacity rating and speed rating required for your vehicle.

**! NOTE** Vehicle and tyre damage caused by non-approved tyre types and sizes

For safety reasons, only use tyres, wheels and accessories which have been specially approved by Mercedes-Benz for your vehicle.

These tyres are specially adapted to the active safety systems, such as ABS, ESP<sup>®</sup> and 4MATIC, and marked as follows:

- MO = Mercedes-Benz Original

- MOE = Mercedes-Benz Original Extended (run-flat tyres only for certain wheels)
- MO1 = Mercedes-Benz Original (only certain AMG tyres)

Otherwise, certain properties, such as handling characteristics, vehicle noise emissions, consumption, etc. could be adversely affected. Furthermore, other tyre sizes could result in the tyres rubbing against the body and axle components when loaded. This could result in damage to the tyre or the vehicle.

Only use tyres, wheels and accessories that have been checked and recommended by Mercedes-Benz.

**! NOTE** Risk to driving safety from retreaded tyres

Retreaded tyres are neither tested nor recommended by Mercedes-Benz, since previous damage cannot always be detected on retreaded tyres.

For this reason driving safety cannot be guaranteed.

- ▶ Do not use used tyres if you have no information about their previous usage.

**!** **NOTE** Possible wheel and tyre damage when driving over obstacles

Large wheels have a smaller section width. As the section width decreases, the risk of wheels and tyres being damaged when driving over obstacles increases.

- ▶ Avoid obstacles or drive especially carefully.
- ▶ Reduce your speed when driving over kerbs, speed bumps, manhole covers and potholes.
- ▶ Avoid particularly high kerbs.

**!** **NOTE** Possible wheel and tyre damage when parking on kerbs or in potholes

Parking on kerbs or in potholes can damage the wheels and tyres.

- ▶ Only park on level surfaces if possible.
- ▶ Avoid kerbs and potholes when parking.

**!** **NOTE** Damage to electronic component parts due to the use of tyre-fitting tools


**Vehicles with tyre pressure monitoring system:** there are electronic component parts in the wheel.

If tyre-fitting tools are positioned in the area of the valve, the electronic components could be damaged.

- ▶ Tyre-fitting tools should not be applied in the area of the valve.
- ▶ Always have tyres changed at a qualified specialist workshop.

**!** **NOTE** Damage to summer tyres at low ambient temperatures

At low ambient temperatures, tears could form when driving with summer tyres, causing permanent damage to the tyre.

- ▶ At temperatures below 7 °C use  M+S tyres.

Accessory parts which are not approved for your vehicle by Mercedes-Benz, or which are not used correctly, can impair the operating safety.

Before purchasing and using non-approved accessories, visit a qualified specialist workshop and enquire about:

- Suitability
- Legal stipulations
- Factory recommendations


**!** **WARNING** Risk of accident with high performance tyres

The special tyre tread in combination with the optimised tyre compound means that the risk of skidding and hydroplaning on wet roads is increased.

In addition, the tyre grip is greatly reduced at a low outside temperature and tyre running temperature.

- ▶ Switch on the ESP® and adapt your driving style accordingly.




- ▶ Use  M+S tyres at outside temperatures of less than 10 °C.
- ▶ Only use the tyres for their intended purpose.


Observe the following when selecting, fitting and replacing tyres:

- Country-specific requirements for tyre approval that define a specific tyre type for your vehicle.
- Furthermore, the use of certain tyre types in certain regions and areas of operation can be highly beneficial.
- Only use tyres and wheels of the same type (summer tyres, winter tyres, MOExtended tyres) and the same make.
- Only fit wheels of the same size on one axle (left and right).  
It is only permissible to fit a different wheel size in the event of a flat tyre in order to drive to the specialist workshop.
- Do not make any modifications to the brake system, the wheels or the tyres.

The use of shims or brake dust shields is not permitted and may invalidate the vehicle's general operating permit.


- **Vehicles with a tyre pressure monitoring system:** all fitted wheels must be equipped with functioning sensors for the tyre pressure monitoring system.
- At temperatures below 7 °C use winter tyres or all-season tyres marked  M+S for all wheels.  
Winter tyres provide the best possible grip in wintry road conditions.
- For M+S tyres, only use tyres with the same tread.
- Observe the maximum permissible speed for the M+S tyres fitted.  
If the tyre's maximum speed is below that of the vehicle, this must be indicated by an appropriate label in the driver's field of vision.
- Run in new tyres at moderate speeds for the first 100 km.
- Replace the tyres after six years at the latest, regardless of wear.

- **When replacing with tyres that do not feature run-flat characteristics:** vehicles with MOExtended tyres are not equipped with a TIREFIT kit at the factory. Equip the vehicle with a TIREFIT kit after replacing with tyres that do not feature run-flat characteristics, e.g. winter tyres.

 You can permanently limit the maximum speed for driving with winter tyres (→ page 227).

For more information on wheels and tyres, contact a qualified specialist workshop.

### Notes on interchanging wheels

 **WARNING** Risk of injury through different wheel sizes

Interchanging the front and rear wheels can severely impair the driving characteristics.

The disk brakes or wheel suspension components may also be damaged.

▶ Only interchange the front and rear wheels if the wheels and tyres have the same dimensions.

Interchanging the front and rear wheels if the wheels or tyres have different dimensions can render the general operating permit invalid. Observe the instructions and safety notes on "Changing a wheel" (→ page 515)

The wear patterns on the front and rear wheels differ:

- front wheels wear more on the tyre shoulder
- rear wheels wear more in the centre of the tyre

Do not drive with tyres that have too little tread depth. This significantly reduces traction on wet roads (aquaplaning).

On vehicles with the same front and rear wheel size, you can interchange the wheels every 5,000 to 10,000 km, depending on the wear. Ensure the direction of rotation is maintained for the wheels.

### Notes on storing wheels

When storing wheels, observe the following notes:

- After removing wheels, store them in a cool, dry and preferably dark place.
- Protect the tyres from contact with oil, grease or fuel.

### Overview of the tyre-change tool kit

Apart from some country-specific variants, vehicles are not equipped with a tyre-change tool kit. Consult a qualified specialist workshop to find out which wheel change tools are necessary and approved for changing the wheel on your vehicle.

You require the following tools, foreexample, to change a wheel:

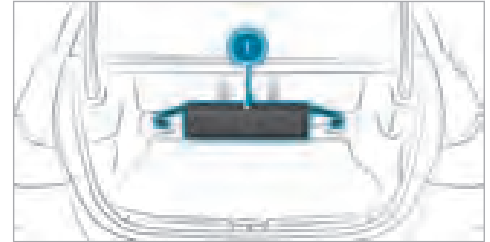
- Jack
- Chock
- Wheel wrench
- Centring pin

**i** The jack weighs approximately 3.4 kg.

The maximum load capacity of the jack can be found on the sticker affixed to the jack. The jack is maintenance-free. If there is a malfunction, please contact a qualified specialist workshop.

The tyre-change tool kit is located in tool bag **1** in the boot.

**i** When stowing the tool bag, make sure that it is adequately secured.



The tool bag contains:

- Jack
- Gloves
- Wheel wrench

- Centring pin
- Folding chock
- Ratchet for jack

### Preparing the vehicle for a wheel change

#### Requirements:

- The vehicle is not on a slope.
- The vehicle is on solid, non-slippery and level ground.
- The required tyre-change tool kit is available.

**i** If your vehicle is not equipped with the tyre-change tool kit, consult a qualified specialist workshop to find out about suitable tools.

- ▶ Apply the electric parking brake manually.
- ▶ Move the front wheels to the straight-ahead position.
- ▶ Shift the transmission to position **P**.
- ▶ **Vehicles with level control system:** set the normal vehicle level (→ page 262).
- ▶ Switch off the vehicle.
- ▶ Make sure that the vehicle cannot be started.

- ▶ Place chocks or other suitable items under the front and rear of the wheel that is diagonally opposite the wheel you wish to change.
- ▶ If necessary, remove the wheel trim/hub caps (→ page 519).
- ▶ Raise the vehicle (→ page 520).

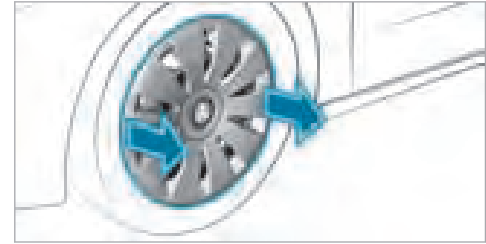
### Removing and fitting the wheel trim/hub caps

#### Requirements

- The vehicle is prepared for a wheel change (→ page 519).

#### Wheel trim

The wheel trim covers the wheel bolts on vehicles with aluminium wheels. Before unscrewing the wheel bolts, remove the wheel trim.



- ▶ **To remove:** using both hands, carefully reach into two wheel trim openings and remove the wheel trim.

#### Plastic hub cap

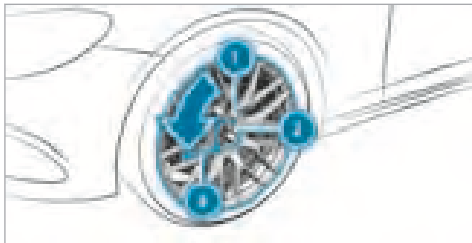
##### To remove:

- ▶ Turn the centre cover of the hub cap anti-clockwise and remove the hub cap.

##### To fit:

- ▶ Make sure that the centre cover of the hub cap is turned anti-clockwise.
- ▶ Position the hub cap and turn the centre cover clockwise until the hub cap engages physically and audibly.

## Aluminium hub cap



## To remove:

- ▶ Position socket ② from the tyre-change tool kit on hub cap ①.
- ▶ Position wheel spanner ③ on socket ②.
- ▶ Using wheel spanner ③, turn hub cap ① anti-clockwise and remove it.

## To fit:

- ▶ Follow the instructions above in reverse order.
- ① **Specified tightening torque:** 25 Nm.

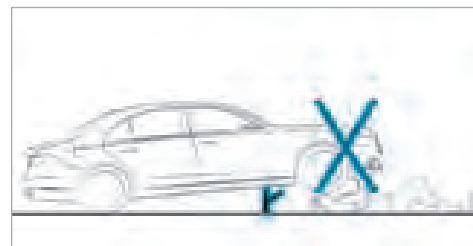
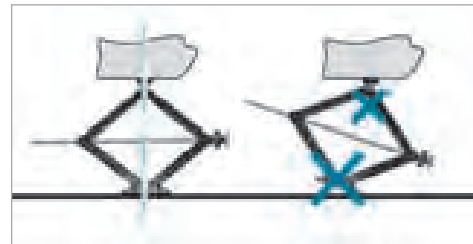
## Raising the vehicle when changing a wheel

## Requirements

- There are no persons in the vehicle.
- The vehicle has been prepared for a wheel change (→ page 519).
- The wheel trims and hub caps have been removed (→ page 519).

## Important notes on using the jack:

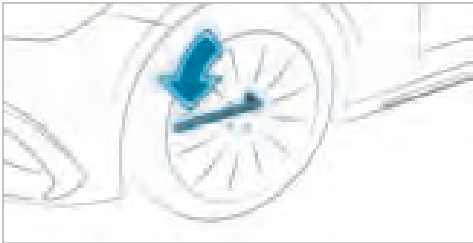
- Use only a vehicle-specific jack that has been approved by Mercedes-Benz to raise the vehicle.
- The jack is only designed for raising and holding the vehicle for a short time while a wheel is being changed and not for maintenance work under the vehicle.
- The jack must be placed on a firm, flat and non-slip surface. If necessary, use a large, flat, load-bearing, non-slip underlay.
- The foot of the jack must be positioned vertically under the jack support point.



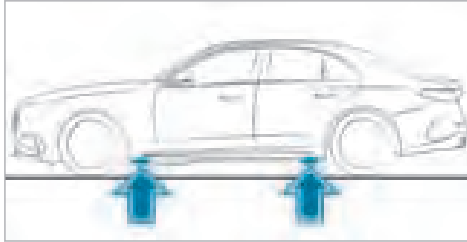
## Rules of conduct when the vehicle is raised:

- Never place your hands or feet under the vehicle.
- Never lie under the vehicle.

- Do not start the vehicle and do not release the electric parking brake.
- Do not open or close any doors or the boot lid.



- ▶ Using the wheel wrench, loosen the wheel bolts on the wheel you wish to change by about one full turn. Do not unscrew the screws completely.



Position of the jack support points

**⚠ WARNING** Risk of injury from incorrect positioning of the jack

If you do not position the jack correctly at the appropriate jacking point of the vehicle, the jack could tip with the vehicle raised.

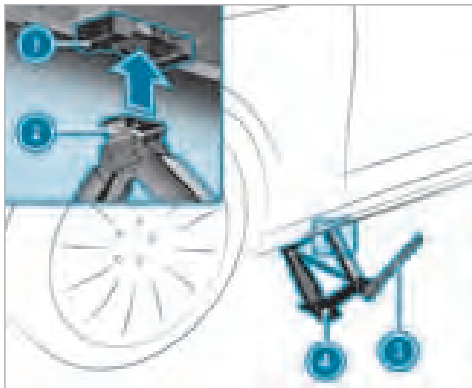
- ▶ Only position the jack at the appropriate jacking point of the vehicle. The base of the jack must be positioned vertically under the jacking point of the vehicle.

**! NOTE** Damage to the vehicle due to the jack

If you do not position the jack at the jack support points provided for this purpose, you could damage your vehicle.

- ▶ Only position the jack at the jack support points provided for this purpose.

- ▶ Take the ratchet out of the tyre-change tool kit and place it on the hexagon nut of the jack so that the letters "AUF" are visible.



- ▶ Position support ② of jack ④ on jack support point ①.
- ▶ Turn ratchet ③ clockwise until support ② sits completely on jack support point ① and the base of the jack lies evenly on the ground.
- ▶ Turn ratchet ③ until the tyre is raised a maximum of 3 cm from the ground.
- ▶ Loosen and remove the wheel (→ page 522).

### Removing a wheel

#### Requirements:

- The vehicle is raised (→ page 520).

When changing a wheel, avoid applying any force to the brake discs, as this could impair the level of comfort when braking.

**!** **NOTE** Damage to the wheels' plastic elements when changing a wheel

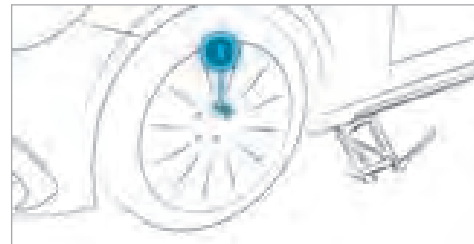
Plastic elements on wheels may be damaged when removing and repositioning the wheel.

- ▶ Do not raise the wheels by the plastic elements when removing and repositioning.

**!** **NOTE** Damage to threading from dirt on wheel bolts

- ▶ Do not place wheel bolts in sand or on a dirty surface.

- ▶ Unscrew the uppermost wheel bolt completely.



- ▶ Screw centring pin ① into the thread instead of the wheel bolt.
- ▶ Unscrew the remaining wheel bolts completely.
- ▶ Remove the wheel.

### Fitting a new wheel

#### Requirements

- The wheel to be changed is removed and the centring pin is screwed in (→ page 522).

**⚠ WARNING** Risk of accident from losing a wheel

Oiled or greased wheel bolts can cause the wheel bolts to come loose, as too can damaged wheel bolts or wheel hub threads.

- ▶ Never oil or grease the threads.
- ▶ In the event of damage to the threads, contact a qualified specialist workshop immediately.
- ▶ Have the damaged wheel bolts or damaged hub threads replaced.
- ▶ Do not continue driving.

- ▶ Observe the information on the choice of tyres (→ page 515).

For tyres with a specified direction of rotation, an arrow on the side wall of the tyre indicates the correct direction of rotation. Observe the direction of rotation when fitting.

**! NOTE** Damage to the wheels' plastic elements when changing a wheel

Plastic elements on wheels may be damaged when removing and repositioning the wheel.

- ▶ Do not raise the wheels by the plastic elements when removing and repositioning.
- ▶ Slide the wheel to be mounted onto the centring pin and push it on.

**⚠ WARNING** Risk of injury from tightening wheel bolts and nuts

If you tighten the wheel bolts or wheel nuts when the vehicle is raised, the jack could tip.

- ▶ Only tighten wheel bolts or wheel nuts when the vehicle is on the ground.
- ▶ Be sure to observe the instructions and safety notes on "Changing a wheel" (→ page 515).
- ▶ For safety reasons, only use wheel bolts which have been approved by Mercedes-Benz and for the wheel in question.

- ▶ Tighten the wheel bolts evenly in a diagonal pattern in the order indicated until they are finger-tight.
- ▶ Unscrew and remove the centring pin.
- ▶ Tighten the last wheel bolt until it is finger-tight.
- ▶ Lower the vehicle (→ page 523).

### Lowering the vehicle after a wheel change

#### Requirements

- The new wheel has been fitted (→ page 522).

**! NOTE** Risk of vehicle jack becoming trapped by the AIRMATIC system

If the AIRMATIC system has released air when raising the vehicle, the jack can become trapped when the vehicle is lowered.

- ▶ Start the engine. This adapts the vehicle level.
- ▶ Remove the jack from under the vehicle.

- ▶ **To lower the vehicle:** place the ratchet onto the hexagon nut of the jack so that the letters "AB" are visible and turn anti-clockwise.



- ▶ Tighten the wheel bolts evenly in a diagonal pattern in the order indicated ① to ⑤ with an initial maximum force of 80 Nm.
- ▶ Tighten the wheel bolts evenly in a diagonal pattern in the order indicated ① to ⑤ with the specified tightening torque of 150 Nm.

**⚠ WARNING** Risk of accident due to incorrect tightening torque

The wheels could come loose if the wheel bolts or wheel nuts are not tightened to the prescribed torque.

- ▶ Ensure that the wheel bolts or wheel nuts are tightened to the prescribed tightening torque.
- ▶ If you are not sure, do not move the vehicle. Contact a qualified specialist workshop and have the tightening torque checked immediately.

- ▶ Check the tyre pressure of the newly fitted wheel and adjust it if necessary.
- ⓘ The following does not apply if the new wheel is an emergency spare wheel.
- ▶ **Vehicles with a tyre pressure loss warning system:** restart the tyre pressure loss warning system (→ page 514).
- ▶ **Vehicles with a tyre pressure monitoring system:** restart the tyre pressure monitoring system (→ page 513).

## Emergency spare wheel

### Notes on the emergency spare wheel

**⚠ WARNING** Risk of accident caused by incorrect wheel and tyre dimensions

The wheel or tyre size and the tyre type of the emergency spare wheel or spare wheel and the wheel to be replaced may differ. The emergency spare wheel or spare wheel can significantly impair driving characteristics of the vehicle.

To prevent hazardous situations:

- ▶ Drive carefully.
- ▶ Never fit more than one emergency spare wheel or spare wheel that differs in size.
- ▶ Only use an emergency spare wheel or spare wheel briefly.
- ▶ Do not deactivate ESP®.
- ▶ Have the emergency spare wheel or spare wheel of a different size replaced at the nearest qualified specialist work-



shop. The new wheel must have the correct dimensions.

Observe the following notes on fitting an emergency spare wheel:

- The maximum permissible speed with an emergency spare wheel fitted is 80 km/h.
  - Do not fit the emergency spare wheel with snow chains.
  - Replace the emergency spare wheel after six years at the latest, regardless of wear.
  - Use the wheel bolts that are included with the emergency spare wheel.
  - Check the tyre pressure of the emergency spare wheel fitted. Correct the pressure as necessary.
- i** The specified tyre pressure is stated on the label of the emergency spare wheel.
- i** **Vehicles with a tyre pressure loss warning system:** if an emergency spare wheel is fitted, the tyre pressure loss warning system cannot function reliably. Only restart the system

again when the emergency spare wheel has been replaced with a new wheel.

**Vehicles with a tyre pressure monitoring system:** if an emergency spare wheel is fitted, the tyre pressure monitoring system cannot function reliably. For a few minutes after an emergency spare wheel is fitted, the system may still display the tyre pressure of the removed wheel. Only restart the system again when the emergency spare wheel has been replaced with a new wheel.

Be sure to also observe the following further related subjects:

- Notes on tyre pressure (→ page 510)
- Tyre pressure table (→ page 511)
- Notes on fitting tyres (→ page 515)
- Fitting an emergency spare wheel (→ page 519)

### Notes on technical data

The technical data was determined in accordance with EU Directives. The data stated only applies to vehicles with standard equipment. You can obtain further information from a Mercedes-Benz Service Centre.

**Only for certain countries:** you can find vehicle-specific vehicle data in the COC documents (CERTIFICATE OF CONFORMITY). These documents are supplied when the vehicle is delivered.

### On-board electronics

#### Notes on tampering with the engine electronics

**!** **NOTE** Premature wear through improper maintenance

Improper maintenance may cause vehicle components to wear more quickly and the vehicle's operating permit may be invalidated.

- ▶ Always have work on the engine electronics and related components carried out at a qualified specialist workshop.

### Two-way radios

#### Notes on fitting two-way radios

**!** **WARNING** Risk of accident due to improper work on two-way radios

If two-way radios are manipulated or retrofitted incorrectly, the electromagnetic radiation from the two-way radios can interfere with the vehicle electronics and jeopardise the operating safety of the vehicle.

- ▶ You should have all work on electrical and electronic components carried out at a qualified specialist workshop.

**!** **WARNING** Risk of accident due to improper operation of two-way radios

If you use two-way radios in the vehicle improperly, their electromagnetic radiation can disrupt the vehicle's electronics. This is the case in the following situations, in particular:

- The two-way radio is not connected to an exterior aerial.
- The exterior aerial is fitted incorrectly or is not a low-reflection aerial.

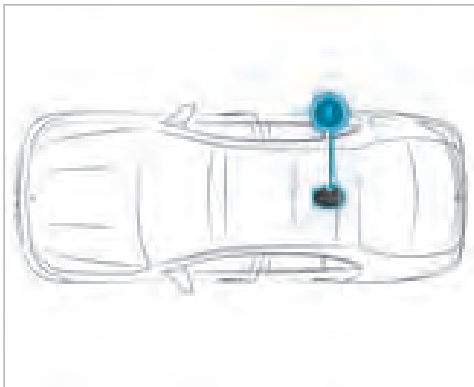
This could jeopardise the operating safety of the vehicle.

- ▶ Have the low-reflection exterior aerial fitted at a qualified specialist workshop.
- ▶ When operating two-way radios in the vehicle, always connect them to the low-reflection exterior aerial.

**!** **NOTE** Invalidation of the operating permit due to failure to comply with the instructions for installation and use

The operating permit may be invalidated if the instructions for installation and use of two-way radios are not observed.

- ▶ Only use approved frequency bands.
- ▶ Observe the maximum permissible output power in these frequency bands.
- ▶ Only use approved aerial positions.



Vehicles without panorama sliding sunroof

① Rear roof area

On vehicles with a panorama sliding sunroof, fitting an aerial is not permitted.

Use Technical Specification ISO/TS 21609 (Road Vehicles - "EMC guidelines for installation of aftermarket radio frequency transmitting equip-

ment") when retrofitting two-way radios. Comply with the legal requirements for detachable parts.

If your vehicle has fittings for two-way radio equipment, use the power supply and aerial connectors provided in the pre-installation. Observe the manufacturer's supplements when fitting.

### ■ Two-way radio transmission output

The maximum transmission output (PEAK) at the base of the aerial must not exceed the values in the following table.

#### Frequency band and maximum transmission output

Frequency band	Maximum transmission output
2-m- frequency band 144 - 174 MHz	50 W
Terrestrial Trunked Radio (TETRA) 380 - 460 MHz	10 W

Frequency band	Maximum transmission output
70-cm- frequency band 430 - 470 MHz	35 W
Two-way radio 2G	2 W
Two-way radio 3G/4G/5G	0.5 W

The following devices can be used in the vehicle without restrictions:

- two-way radios with a maximum transmission output of up to 100 mW
- two-way radios with transmitter frequencies in the 380 - 420 MHz frequency band and a maximum transmission output of up to 2 W (TETRA)
- mobile phones (2G/3G/4G/5G)

There are no restrictions when positioning the aerial on the outside of the vehicle for the following frequency bands:

- TETRA
- 2G/3G/4G/5G

### Notes on pyrotechnical vehicle components

#### Registration information on pyrotechnic actuators



#### Manufacturer information:

Autoliv NCS Pyrotechnie et Technologies, Rue de la Cartoucherie, 95470 Survilliers, France

Registration number:

2806 – P1 – 004163

Model designation:

PSS-1, PSS-2, PSS-3, PSS-4, PSS-6, PSS-6 Gen.1, PSS-6 Gen.2

#### Regulatory radio information

#### Specific information on wireless applications in accordance with 2014/53/EU

Besides the typical frequencies for mobile communication cars by Mercedes-Benz make use of the following automotive radio applications.

#### Type of wireless applications and specifications in accordance with 2014/53/EU

Technology	Frequency range	Transmission output/magnetic field strength
Remote Keyless Entry	20 kHz (9–90 kHz)	≤ 72 dBμA/m at 10m
Wireless Power Transmission	105 kHz (90–119 kHz)	≤ 42 dBμA/m at 10m
Remote Keyless Entry	120 kHz (119–135 kHz)	≤ 42 dBμA/m at 10m

Technology	Frequency range	Transmission output/magnetic field strength
Wireless Power Transmission	127 kHz (119–135 kHz)	≤ 66 dB $\mu$ A/m at 10m with the magnetic field strength level decreasing 3dB/octave above 119 kHz
Near-field communication	13.553–13.567 MHz	≤ 42 dB $\mu$ A/m at 10m
Remote Keyless Entry, Garage Door Opener, Tire Pressure Monitoring	433 MHz (433.05–434.79 MHz)	≤ 10 mW ERP
Block Heater Remote Control, Garage Door Opener	868 MHz (868.0–868.6 MHz)	≤ 25 mW ERP
Block Heater Remote Control, Garage Door Opener	869 MHz (868.7–869.2 MHz)	≤ 25 mW ERP
Bluetooth, Klear, RLAN, wireless Headphones	2.4 GHz ISM band (2400–2483.5 MHz)	≤ 100 mW EIRP
RLAN	5.1 GHz UNII-1 (5150–5250 MHz)	≤ 25 mW EIRP
Interior Monitoring Radar, RLAN	5.8 GHz UNII-3 (5725–5875 MHz)	≤ 25 mW EIRP
Remote Keyless Entry	7.25 GHz UWB (6.0–8.5 GHz)	≤ -41.3 dBm/MHz EIRP mean ≤ 0 dBm/MHz EIRP peak
76 GHz radar	76–77 GHz	≤ 55 dBm peak EIRP

Technology	Frequency range	Transmission output/magnetic field strength
Carsharing Module	<b>NFC:</b> 13.553–13.567 MHz <b>Bluetooth®:</b> 2402–2480 MHz	<b>NFC:</b> ≤ 42 dB $\mu$ A/m at 10 m <b>Bluetooth®:</b> ≤ +4 dBm (class 2)
Rear Seat Entertainment System	<b>Bluetooth®:</b> 2400–2483.5 MHz <b>WLAN 2.4 GHZ:</b> 2400–2483.5 MHz <b>WLAN 5 GHz:</b> 5150–5250 MHz 5725–5875 MHz	<b>Bluetooth®:</b> -0.8 dBm <b>WLAN 2.4 GHZ:</b> 14.5 dBm <b>WLAN 5 GHz:</b> 20.5 dBm 13.3 dBm
Two-way radio (Tel7 telephone control unit)	E-GSM (900 MHz) GSM (1800 MHz)	+33 dBm +30 dBm
	UMTS (Band I, III, VIII)	+24 dBm (+1/-3 dB)
	LTE (Band 1, 3, 7, 8, 20, 28)	+23 dBm ( $\pm$ 2 dB)

Technology	Frequency range	Transmission output/magnetic field strength
HERMES (Hardware for Enhanced Remote, Mobility & Emergency Services)	WLAN (2400-2483.5 MHz) WLAN (5736-5833 MHz)	< 20 dBm < 14 dBm
	GSM (E-GSM 900, Class 4) GSM (E-GSM 1800, Class 1) GSM (E-GSM 900 8-PSK, Class E2) GSM (E-GSM 1800 8-PSK, Class E2)	< +33 dBm ( $\pm 2$ dB) < +30 dBm ( $\pm 2$ dB) < +27 dBm ( $\pm 3$ dB) < +26 dBm ( $\pm 3$ dB/-4 dB)
	UMTS (2100 WCDMA FDD B1, Class 3)	< +24 dBm ( $\pm 1$ dB/-3 dB)
	LTE (FDD B I, B III, B38, B39, B40, B41, Class 3)	< +23 dBm ( $\pm 2$ dB)
	GPS (1575.42 MHz +/- 2 MHz)	Receiving only
RAMSES (Router And Mobile ServiceS)	GSM (E-GSM 850 / E-GSM 900, Class 4) GSM (E-GSM 1800 / E-GSM 1900, Class 4)	< +32.5 dBm ( $\pm 1$ dB) < +29.5 dBm ( $\pm 1$ dB)
	UMTS (WCDMA FDD I, II, III, IV, V, VIII, XIX, Class 3)	< +23.5 dBm ( $\pm 1$ dB)
	LTE (FDD B1, B2, B3, B4, B5, B7, B8, B9, B18, B19, B21, B28, Class 3)	< +23 dBm ( $\pm 1$ dB)

Technology	Frequency range	Transmission output/magnetic field strength
	LTE (TDD B38, B40, B41, Class 3)	< +23 dBm ( $\pm 1$ dB)
	GNSS (1559–1610 MHz)	Receiving only

### Regulatory radio identifiers and specific notes

The tables and sections contain the following regulatory radio information:

- Manufacturer information
- Required regulatory radio identifiers listed by country/region:
  - Manufacturer's specifications
  - Model designations
  - Radio equipment approval numbers
- Specific notes on radio-based vehicle components

### Overview of manufacturers

Manufacturer	Manufacturer information
ADC	ADC Automotive Distance Control Systems GmbH, Peter-Dornier-Straße 10, 88131 Lindau, Germany
Bosch	Robert Bosch GmbH, Daimlerstraße 6, 71229 Leonberg, Germany
Continental Antenna	Continental Advanced Antenna GmbH, Römerring 1, 31137 Hildesheim, Germany

Manufacturer	Manufacturer information
Continental Automotive	Continental Automotive GmbH, Siemensstraße 12, 93055 Regensburg, Germany
Gentex	Gentex Corporation, 600 North Centennial Street, Zeeland MI 49464, USA
Harman Becker	Harman Becker Automotive Systems GmbH, Becker-Goehring-Strasse 18, 76307 Karlsbad, Germany



Manufacturer	Manufacturer information
HELLA	HELLA KGaA Hueck & Co., Rixbecker Straße 75, 59552 Lippstadt, Germany
Hirschmann	Hirschmann Car Communication GmbH, Stuttgarter Straße 45-51, 72654 Neckartenzlingen, Germany
Huf Baolong	Huf Baolong Electronics Bretten GmbH, Gewerbestraße 40, 75015 Bretten, Germany
HUF	HUF Hülsbeck & Fürst GmbH & Co. KG, Steeger Straße 17, 42551 Velbert, Germany

Manufacturer	Manufacturer information
KATHREIN	KATHREIN Automotive GmbH & Co. KG, Römerring 1, 31137 Hildesheim, Germany
LEOPOLD KOSTAL	LEOPOLD KOSTAL GmbH & Co. KG, Hauert 11, 44227 Dortmund, Germany
MARQUARDT	MARQUARDT GmbH, Schloßstraße 16, 78604 Rietheim-Weilheim, Germany
Meta System	Meta System S.P.A., Via T. Galimberti 5, 42124 Reggio Emilia, Italy
Molex	Molex CVS Dabendorf GmbH, Märkische Straße 72, 15806 Zossen, Germany

Manufacturer	Manufacturer information
Panasonic	Panasonic Automotive Systems Europe GmbH, Robert-Bosch-Straße 27, 63225 Langen, Germany
Schrader	Schrader Electronics Ltd., 11 Technology Park, Belfast Road, Antrim BT41 1QS, Northern Ireland, United Kingdom
Sennheiser	Sennheiser electronic GmbH & Co. KG, Am Labor 1, 30900 Wedemark, Germany

Manufacturer	Manufacturer information
Veoneer	Veoneer Sweden AB, Wallentinsvägen 22, 44737 Vårgårda, Sweden
WITTE-Velbert	WITTE-Velbert GmbH & Co. KG, Hoefenstr. 3-15, 42551 Velbert, Germany

## Algeria

<b>Agréé par l'ANF</b> <b>Référence du Certificat de conformité</b>
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<b>Homologué par l'ARPCE</b> <b>Référence du Certificat de conformité</b>
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## Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223GNS (locking system)	71/H/ANF/2021
Continental Automotive	CMKG1 (locking system)	122/H/ANF/2021
Continental Automotive	MARS Keyless (locking system)	122/H/ANF/2021

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	123/H/ANF/2021
Hirschmann	920287A (locking system)	106/H/ANF/2020
Hirschmann	920287B (locking system)	107/H/ANF/2020
LEOPOLD KOSTAL	KK1 (locking system)	172/H/ANF/2021
MARQUARDT	DC12A (locking system)	188/H/ANF/2021
MARQUARDT	DC12B (locking system)	189/H/ANF/2021
MARQUARDT	DC12K (locking system)	190/H/ANF/2021

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	195/H/ANF/2021
MARQUARDT	MK1 (locking system)	193/H/ANF/2021
MARQUARDT	MK2 (locking system)	194/H/ANF/2021
MARQUARDT	3350.38 (locking system)	186/H/ANF/2021
Schrader	AG5SP4 (tyre pressure sensor)	3681/1-73.0 A 1639/DT/DG/ARPT/15
Schrader	AG3PF4 (tyre pressure sensor)	652/1/DT/DG/ARPCE/2020

Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	56/H/ANF/2021
Schrader	GG4T (tyre pressure sensor)	3994/1.69-DA/ 2098/DT/DG/ARPT/17
Schrader	DG6W2D4 (tyre pressure sensor)	2695/1-NO.431396/ DT/DG/ARPT/17
Huf Baolong	TSSRE4A (tyre pressure sensor)	2695/1-NO.431396/ DT/DG/ARPT/17
WITTE-Velbert	SDHTAG3NFC (locking system)	32/H/ANF/2021

## Argentina

### Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	H-26206
Continental Antenna	RKE223E1 (aerial amplifier)	H-24637
Continental Automotive	CMKG1 (locking system)	H-24376
Continental Automotive	MARS Keyless (locking system)	H-17929
Continental Automotive	D-WMI2020A (control unit)	H-23974



Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	H-17845
Hirschmann	920287A (locking system)	H-15694
Hirschmann	920287B (locking system)	H-15695
Huf Baolong	TSSRE4A (tyre pressure sensor)	H-20027
HUF	HUF14632 (locking system)	H-15541



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	H-11545
LEOPOLD KOSTAL	KK1 (locking system)	H-16874
MARQUARDT	DC12A (locking system)	H-17689
MARQUARDT	DC12B (locking system)	H-21034
MARQUARDT	DC12K (locking system)	H-21035
MARQUARDT	MS2 (locking system)	H-17598



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS4 (locking system)	H-23101
MARQUARDT	MS5 (locking system)	H-24933
MARQUARDT	MK1 (locking system)	H-17213
MARQUARDT	MK2 (locking system)	H-17212
MARQUARDT	3350.38 (locking system)	H-23166
Schrader	AG5SP4 (tyre pressure sensor)	H-4788



Manufacturer	Model designation	Radio equipment approval number
Schrader	AG3PF4 (tyre pressure sensor)	H-23292
Schrader	BG3FP4 (tyre pressure sensor)	H-25586
Schrader	GG4T (tyre pressure sensor)	H-20495
Schrader	DG6W2D4 (tyre pressure sensor)	H-20959
WITTE-Velbert	SDHTAG3NFC (locking system)	H-24664

## Australia

### Regulatory radio identification



Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS4-C (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRRre14FCR (radar sensor)
Bosch	FR5CPCCF (radar sensor)
Huf Baolong	TSSRE4A (tyre pressure sensor)
Schrader	AG5SP4 (tyre pressure sensor)



Manufacturer	Model designation
Schrader	AG3PF4 (tyre pressure sensor)
Schrader	BG3FP4 (tyre pressure sensor)
Schrader	GG4T (tyre pressure sensor)
Schrader	DG6W2D4 (tyre pressure sensor)
Veoneer	77V12BSM (radar sensor)
Veoneer	77V12CRN (radar sensor)



Manufacturer	Model designation
Veoneer	77V125CRN (radar sensor)
Veoneer	MMRV1 (radar sensor)

## Bahamas

### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	URCA_TA_2014_082
ADC	ARS4-C (radar sensor)	URCA_TA_2019_167
Bosch	MRR1Rear (radar sensor)	URCA_TA/2017_184

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRRe14FCR (radar sensor)	URCA_TA/2017_157
Bosch	FR5CPCCF (radar sensor)	URCA_TA_2019_195
Continental Automotive	CMKG1 (locking system)	URCA_TA/2020_068
Continental Automotive	MARS Keyless (locking system)	URCA_TA/2017_119
Continental Antenna	RKE213E1 (aerial amplifier)	UCRA_TA/2016_009
Continental Antenna	RKE223E1GN S (aerial amplifier)	UCRA_TA/2020_032
HELLA	DM4 (locking system)	URCA_TA/2017_078

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	URCA_TA/2019_053
Hirschmann	920287B (locking system)	URCA_TA/2019_052
HUF	HUF4761 (locking system)	URCA_TA/2015_087
Huf Baolong	TSSRE4A (tyre pressure sensor)	URCA_TA/2017_094
LEOPOLD KOSTAL	KK1 (locking system)	URCA_TA/2015_081
MARQUARDT	DC12A (locking system)	URCA_TA_2017_042

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	URCA_TA_2019_128
MARQUARDT	DC12K (locking system)	URCA_TA_2019_129
MARQUARDT	MS2 (locking system)	URCA_TA/2017_021
MARQUARDT	MS4 (locking system)	URCA_TA_2019_141
MARQUARDT	MS5 (locking system)	URCA_TA_2020_141
MARQUARDT	MK1 (locking system)	URCA_TA/2015_031
MARQUARDT	MK2 (locking system)	URCA_TA/2015_033

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	URCA_TA/2019_250
Schrader	AG5SP4 (tyre pressure sensor)	URCA_TA_TA/2015_009
Schrader	AG3PF4 (tyre pressure sensor)	URCA_TA_2019_101
Schrader	BG3FP4 (tyre pressure sensor)	URCA_TA_2021_001
Schrader	GG4T (tyre pressure sensor)	URCA_TA_2020_046
Schrader	DG6W2D4 (tyre pressure sensor)	URCA_TA_2019_247

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	URCA_TA_2019_169
Veoneer	77V12CRN (radar sensor)	URCA_TA_2019_168
Veoneer	77V125CRN (radar sensor)	URCA_TA_2021_027
Veoneer	MMRV1 (radar sensor)	URCA_TA/2015_063
WITTE-Velbert	SDHTAG3NFC (locking system)	URCA_TA_2020_056

## Belarus

## Regulatory radio identification



Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS4-C (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRRre14FCR (radar sensor)
Bosch	FR5CPCCF (radar sensor)
Continental Antenna	RKE223E1 (aerial amplifier)
Continental Automotive	CMKG1 (locking system)



Manufacturer	Model designation
Continental Automotive	MARS Keyless (locking system)
Harman Becker	HERMES 3.0 (communication module)
HELLA	DM4 (locking system)
MARQUARDT	DC12A (locking system)
MARQUARDT	DC12B (locking system)
MARQUARDT	DC12K (locking system)
MARQUARDT	MS2 (locking system)
MARQUARDT	MS4 (locking system)



Manufacturer	Model designation
MARQUARDT	MS5 (locking system)
MARQUARDT	MK1 (locking system)
MARQUARDT	MK2 (locking system)
Veoneer	77V12BSM (radar sensor)
Veoneer	77V12CRN (radar sensor)
Veoneer	77V125CRN (radar sensor)
Veoneer	MMRV1 (radar sensor)
WITTE-Velbert	SDHTAG3NFC (locking system)



**Botswana**
**Regulatory radio identification**

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	BOCRA/TA/2018/2026
ADC	ARS4-C (radar sensor)	BOCRA/TA/2020/5186
Bosch	MRRe14FCR (radar sensor)	BOCRA/TA/2019/4674
Bosch	FR5CPCCF (radar sensor)	BOCRA/TA/2019/4975
Bosch	MRR1Rear (radar sensor)	BOCRA/TA/2017/3788
Continental Antenna	RKE213E1 (aerial amplifier)	BOCRA/TA/2019/4387

Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223E1GN S (aerial amplifier)	BOCRA/TA/2019/5050
Continental Automotive	CMKG1 (locking system)	BOCRA/TA/2019/5075
Continental Automotive	MARS Keyless (locking system)	BOCRA/TA/2019/4661
HELLA	DM4 (locking system)	BOCRA/TA/2019/4662
Hirschmann	920287A (locking system)	BOCRA/TA/2019/4724
Hirschmann	920287B (locking system)	BOCRA/TA/2019/4723

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	BOCRA/TA/2019/4664
LEOPOLD KOSTAL	KK1 (locking system)	BOCRA/TA/2019/4593
MARQUARDT	DC12A (locking system)	BOCRA/TA/2019/4389
MARQUARDT	DC12B (locking system)	BOCRA/TA/2019/4388
MARQUARDT	DC12K (locking system)	BOCRA/TA/2019/4390
MARQUARDT	MS2 (locking system)	BOCRA/TA/2019/5135
MARQUARDT	MS4 (locking system)	BOCRA/TA/2019/4758

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	BOCRA/TA/2020/5473
MARQUARDT	MK1 (locking system)	BOCRA/TA/2019/4359
MARQUARDT	MK2 (locking system)	BOCRA/TA/2019/4360
MARQUARDT	3350.38 (locking system)	BOCRA/TA/2019/4687
Veoneer	77V12BSM (radar sensor)	BOCRA/TA/2019/4975
Veoneer	77V12CRN (radar sensor)	BOCRA/TA/2019/4980

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V125CRN (radar sensor)	BOCRA/TA/2021/6191
WITTE-Velbert	SDHTAG3NFC (locking system)	BOCRA/TA/2020/5342

### Brazil

#### Note on two-way radio systems in the vehicle:

These systems are not protected against harmful interference and must not cause interference in properly approved systems.

### Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	07359-21-12817
Continental Antenna	RKE213E1 (aerial amplifier)	3691-15-5298
Continental Automotive	CMKG1 (locking system)	00325-20-02149
Continental Automotive	MARS Keyless (locking system)	03189-17-02856
HELLA	DM4 (locking system)	04689-17-05364



Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	1855-12-5762
Hirschmann	920287B (locking system)	1787-12-8058
HUF	HUF14632 (locking system)	03627-15-06643
HUF	HUF4761 (locking system)	00053-13-06643
MARQUARDT	DC12A (locking system)	01333-17-02930



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	01395-11-02930
MARQUARDT	DC12K (locking system)	01392-11-02930
MARQUARDT	MS2 (locking system)	00616-17-02930
MARQUARDT	MS4 (locking system)	06218-19-02930
MARQUARDT	MS5 (locking system)	11149-20-02930
MARQUARDT	3350.38 (locking system)	03149-19-02930



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	03756-15-02930
MARQUARDT	MK2 (locking system)	03757-15-02930
WITTE-Velbert	SDHTAG3NFC (locking system)	03034-20-07018

#### Further specific information

##### Rear Seat Entertainment System:


This system is not protected against harmful interference and must not cause interference in properly approved systems.


This product is approved by ANATEL in accordance with the procedures set out in Resolution


242/2000 and complies with the relevant technical requirements. Further information can be found on the <https://www.anatel.gov.br>

### Brunei Darussalam

#### Regulatory radio identification

		
Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-C (radar sensor)	DTA-004005
Bosch	FR5CPCCF (radar sensor)	DTA-004222
Bosch	LRR3 (radar sensor)	DTA-011039
Bosch	MRR1Rear (radar sensor)	DTA-006601

		
Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR14FCR (radar sensor)	DTA-006678
Continental Antenna	RKE213E1 (aerial amplifier)	DTA-006665
Continental Antenna	RKE223E1GN S (aerial amplifier)	DTA-004998
Continental Automotive	CMKG1 (locking system)	DTA-005043
Continental Automotive	MARS Keyless (locking system)	LPD-39004

		
Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	DTA-000351
Hirschmann	920287A (locking system)	DTA-001661
Hirschmann	920287B (locking system)	DTA-000794
Huf Baolong	TSSRE4A (tyre pressure sensor)	DTA-000310



Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure monitoring system control unit)	DTA-003757
HUF	HUF14632 (locking system)	DTA-006138
HUF	HUF4761 (locking system)	DTA-000615
LEOPOLD KOSTAL	KK1 (locking system)	DTA-007245



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	LPD-38937
MARQUARDT	DC12B (locking system)	DTA-000068
MARQUARDT	DC12K (locking system)	DTA-000066
MARQUARDT	MS2 (locking system)	LPD-38890
MARQUARDT	MS4 (locking system)	DTA-003525
MARQUARDT	MS5 (locking system)	DTA-005850



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	DTA-011312
MARQUARDT	MK2 (locking system)	DTA-011313
MARQUARDT	3350.38 (locking system)	DTA-003662
Schrader	AG5SP4 (tyre pressure sensor)	LPD-29665
Schrader	AG3PF4 (tyre pressure sensor)	LPD-29665



Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	DRQ-D-JATI-07-2000-109000
Schrader	DG6W2D4 (tyre pressure sensor)	DTA-001514
Schrader	MFR (tyre pressure monitoring system control unit)	DTA No. 003893





Manufacturer	Model designation	Radio equipment approval number
Schrader	MFR3 (tyre pressure monitoring system control unit)	DRQ-D-MAJU-02-2011-111083
Veoneer	77V12BSM (radar sensor)	DTA-004000
Veoneer	77V12CRN (radar sensor)	DTA-003999
Veoneer	77V125CRN (radar sensor)	DTA-010423







Manufacturer	Model designation	Radio equipment approval number
Veoneer	77GHz MMRV1 (radar sensor)	DTA-006216
WITTE-Velbert	SDHTAG3NFC (locking system)	DTA-005628

## Eurasian Economic Union

## Regulatory radio identification

	
Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS4-C (radar sensor)
Bosch	FR5CPCCF (radar sensor)
Bosch	LRR3 (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRRre14FCR (radar sensor)
Continental Antenna	RKE213E1 (aerial amplifier)

	
Manufacturer	Model designation
Continental Antenna	RKE223E1GNS (aerial amplifier)
Continental Automotive	MARS Keyless (locking system)
HELLA	DM4 (locking system)
Hirschmann	920287A (locking system)
Hirschmann	920287B (locking system)
Huf Baolong	TSSRE4A (tyre pressure sensor)
HUF	HUF4761 (locking system)

	
Manufacturer	Model designation
HUF	HUF14632 (locking system)
LEOPOLD KOSTAL	KK1 (locking system)
MARQUARDT	DC12A (locking system)
MARQUARDT	DC12B (locking system)
MARQUARDT	DC12K (locking system)
MARQUARDT	MS2 (locking system)
MARQUARDT	MS4 (locking system)
MARQUARDT	MS5 (locking system)
MARQUARDT	MK1 (locking system)

**Manufacturer****Model designation**

MARQUARDT	MK2 (locking system)
MARQUARDT	3350.38 (locking system)
Schrader	AG5SP4 (tyre pressure sensor)
Schrader	AG3PF4 (tyre pressure sensor)
Schrader	BG3FP4 (tyre pressure sensor)
Schrader	GG4T (tyre pressure sensor)
Schrader	DG6W2D4 (tyre pressure sensor)

**Manufacturer****Model designation**

Veoneer	77GHz MMRV1 (radar sensor)
Veoneer	77V12BSM (radar sensor)
Veoneer	77V12CRN (radar sensor)
Veoneer	77V125CRN (radar sensor)
WITTE-Velbert	SDHTAG3NFC (locking system)

**Ghana****Regulatory radio identification**

Manufacturer	Model designation	Radio equipment approval number
		NCA APPROVED
ADC	ARS4-C (radar sensor)	ZRO-1H-7E3-152
Bosch	FR5CPCCF (radar sensor)	ZRO-M8-7E3-230
Continental Antenna	RKE213E1 (aerial amplifier)	ZRO-M8-7E3-X53
Continental Antenna	RKE223E1GN S (aerial amplifier)	ZRO-M8-7E3-225
Continental Automotive	CMKG1 (locking system)	ZRO-M8-7E3-277





Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	MARS Keyless (locking system)	BR3-1M-GE2-16A
HELLA	DM4 (locking system)	BR3-1M-GE2-157
Hirschmann	920287A (locking system)	ZRO-M8-7E3-X45
Hirschmann	920287B (locking system)	ZRO-M8-7E3-X47
HUF	HUF4761 (locking system)	EX6-6M-GE2-16C
LEOPOLD KOSTAL	KK1 (locking system)	ZRO-M8-7E3-X49



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	ZRO-M8-7E3-X50
MARQUARDT	DC12B (locking system)	ZRO-M8-7E3-X51
MARQUARDT	DC12K (locking system)	ZRO-M8-7E3-X52
MARQUARDT	MS2 (locking system)	BR3-1M-GE-129
MARQUARDT	MS4 (locking system)	ZRO-1H-7E3-26E
MARQUARDT	MS5 (locking system)	SRO-1M-7E4-11B
MARQUARDT	MK1 (locking system)	ZRO-M8-7E3-X4A
MARQUARDT	MK2 (locking system)	ZRO-M8-7E3-X4C



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	ZRO-M8-7E3-X3C
Veoneer	77V12BSM (radar sensor)	ZRO-1H-7E3-142
Veoneer	77V12CRN (radar sensor)	ZRO-M8-7E3-230
Veoneer	77V125CRN (radar sensor)	7E5-7M-X72-RDR
WITTE-Velbert	SDHTAG3NFC (locking system)	SRO-1M-7E4-X59

## Indonesia


## Regulatory radio identification


Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-C (radar sensor)	68676/ SDPPI/2020 7163 
ADC	ARS4-A (radar sensor)	70266/ SDPPI/2020 7163 


Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	74264/ SDPPI/2021 7163 
Bosch	MRR1Rear (radar sensor)	74267/ SDPPI/2021 7163 


Manufacturer	Model designation	Radio equipment approval number
Bosch	MRRevo14F (radar sensor)	74265/ SDPPI/2021 7163 
Bosch	MRRe14FCR (radar sensor)	74266/ SDPPI/2021 7163 


Manufacturer	Model designation	Radio equipment approval number
Bosch	FR5CPCCF (radar sensor)	67882/ SDPPI/2020 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	76621/ SDPPI/2021 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		
Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223E1GN S (aerial amplifier)	66185/SDPPI/202010325  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya
Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	66911 / SDPPI/2020 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	MARS Keyless (locking system)	69379 / SDPPI/2020 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	D-WMI2020A (Steuergerät)	66678/SDPPI/20207163  <p>Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya</p>


  

Manufacturer	Model designation	Radio equipment approval number
		

Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	NTG7 MID (Headunit)	70732/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	NTG7 HIGH (Headunit)	70733/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		


  


Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	NTG7 PRE-MIUM (Headunit)	70731 / SDPPI/2020 7163  <p>Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya</p>


  




Manufacturer	Model designation	Radio equipment approval number
		





Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	NTG7 PREMIUM PLUS (Headunit)	70734/SDPPI/2020 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		

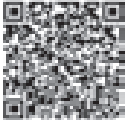


Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG6N ENTRY/MID (Headunit) Production: Germany	64019/SDPPI/2019 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		
Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG6N HIGH (Headunit) Production: Germany	64018/ SDPPI/2019 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya
Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG6N ENTRY/MID (Headunit) Production: Hungary	63775/ SDPPI/2019 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		




Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG6N HIGH (Headunit) Production: Hungary	63774/ SDPPI/2019 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		
Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG7 MID (Headunit)	65544/ SDPPI/2020 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya
Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG7 HIGH (Headunit)	70513/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		



Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG7 PRE- MIUM (Headunit)	65543/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		
Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG7 PRE- MIUM PLUS (Headunit)	70512/ SDPPI/2020 7163  Dilarang mel- akukan peru- bahan spesi- fikasi yang dapat menim- bulkan gang- guan fisik dan/atau elektromag- netik terha- dap lingkun- gan sekitar- nya
Manufacturer	Model designation	Radio equip- ment approval number
		


Manufacturer	Model designation	Radio equipment approval number
Harman Becker	NTG7 RSU (control unit)	66387/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	69378/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

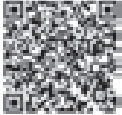
Manufacturer	Model designation	Radio equipment approval number
		
Huf Baolong	TSSRE4A (tyre pressure sensor)	72438/ SDPPI/2021 7163 

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	71369 / SDPPI/2020 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

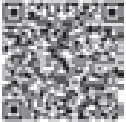

Manufacturer	Model designation	Radio equipment approval number
		





Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	72974 / SDPPI/2021 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		




Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking system)	78368 / SDPPI/2021 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number	Manufacturer	Model designation	Radio equipment approval number	Manufacturer	Model designation	Radio equipment approval number
			HUF	HUF4761 (locking system)	26742/ SDPPI/2015 3533   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya	LEOPOLD KOSTAL	KK1 (locking system)	41121/ SDPPI/2018 5125


Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	67373/ SDPPI/2020 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	80676/ SDPPI/2022 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	80621/ SDPPI/2022 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya
Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	67372/ SDPPI/2020 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS4 (locking system)	64126/ SDPPI/2019 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		


  


Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	69077/ SDPPI/2020 7163 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		


Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	75282/ SDPPI/ 2021 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	75285/ SDPPI/ 2021 7163   Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya




Manufacturer	Model designation	Radio equipment approval number
		
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	62233/ SDPPI/2019 7163  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya
Manufacturer	Model designation	Radio equipment approval number
		






Manufacturer	Model designation	Radio equipment approval number
Molex	WCH-302b (Steuergerät)	71668/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya


Manufacturer	Model designation	Radio equipment approval number
		

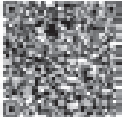

Manufacturer	Model designation	Radio equipment approval number
Molex	WCH-302d (Steuergerät)	71220/ SDPPI/2020 7163    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

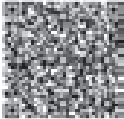
Manufacturer	Model designation	Radio equipment approval number	Manufacturer	Model designation	Radio equipment approval number	Manufacturer	Model designation	Radio equipment approval number
			Moxel	WCH-302e (Steuergerät)	71 669 / SDPPI/2020 7163 			
				Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya				


Manufacturer	Model designation	Radio equipment approval number
Panasonic	DAIRSE (Steuergerät)	63550/ SDPPI/2019    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

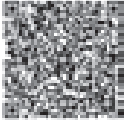
Manufacturer	Model designation	Radio equipment approval number
		
Schrader	GG4T (tyre pressure sensor)	72023/ SDPPI/2020 9338
Schrader	AG5SP4 (tyre pressure sensor)	75465/ SDPPI/2021 7163  

Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	72765/ SDPP/2021 7163  
Schrader	DG6W2D4 (tyre pressure sensor)	57058/ SDPPI/2018 3612
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	25626/ SDPPI/2015 3612


Manufacturer	Model designation	Radio equipment approval number
Schrader	AG3PF4 (tyre pressure sensor)	62396/ SDPPI/2020 7163 
Schrader	GG4T (tyre pressure sensor)	72023/ SDPPI/2020 7163 

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77GHz MMRV1 (radar sensor)	74749/ SDPPI/2021 7163
Veoneer	77V12CRN (radar sensor)	66830/ SDPPI/2020 7163 

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V125CRN (radar sensor)	78366/ SDPPI/2021 7163 

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	66792/ SDPPI/2020 7163 

Manufacturer	Model designation	Radio equipment approval number
WITTE-Velbert	SDHTAG3NFC (locking system)	67233/ SDPPI/2020 10325  Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya

Manufacturer	Model designation	Radio equipment approval number
		

#### Israel

#### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
		Approval number of the Ministry of Communications:
ADC	ARS4-A (radar sensor)	55-09697

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-C (radar sensor)	55-07525
Bosch	FR5CPCCF (radar sensor)	55-08783
Bosch	LRR3 (radar sensor)	55-08334
Bosch	MRR1Rear (radar sensor)	55-08333
Bosch	MRRre14FCR (radar sensor)	55-08395
Continental Automotive	D-WMI2017B (Steuergerät)	51-75654
Continental Automotive	D-WMI2017A (Steuergerät)	51-75367
Continental Automotive	D-WMI2016A (Steuergerät)	55-08177

Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	D-WMI2020A (Steuergerät)	55-08179
Huf Baolong	TSSRE4A (tyre pressure sensor)	63-63571
Huf Baolong	TSSSG4G6b (tyre pressure monitoring system control unit)	63-66757
Schrader	AG3PF4 (tyre pressure sensor)	51-78338
Schrader	AG5SP4 (tyre pressure sensor)	51-73152

Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	51-77898
Schrader	DG6W2D4 (tyre pressure sensor)	51-64111
Schrader	GG4T (tyre pressure sensor)	55-09441
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	51-29611
Schrader	MFR (tyre pressure monitoring system control unit)	55-06040

Manufacturer	Model designation	Radio equipment approval number
Schrader	MFR3 (tyre pressure monitoring system control unit)	51-79817
Veoneer	77V12BSM (radar sensor)	55-08176
Veoneer	77V12CRN (radar sensor)	55-08301

### Jamaica

#### Regulatory radio identification

Manufacturer	Model designation
Continental Automotive	CMKG1 (locking system)
HELLA	DM4 (locking system)

Manufacturer	Model designation
MARQUARDT	DC12A (locking system)
MARQUARDT	DC12B (locking system)
MARQUARDT	DC12K (locking system)
MARQUARDT	MS2 (locking system)
MARQUARDT	MS4 (locking system)
MARQUARDT	MS5 (locking system)
MARQUARDT	MK1 (locking system)
MARQUARDT	MK2 (locking system)
MARQUARDT	3350.38 (locking system)
WITTE-Velbert	SDHTAG3NFC (locking system)

### Japan

#### Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
Sennheiser	M3IETW2R (Earbud)	201-190814 (R)
Sennheiser	M3IETW2L (Earbud)	201-190815 (L)
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	020-180077

## Canada

## Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
Sennheiser	M3IETW2R (Earbud)	IC:2099A-M3IETW2R
Sennheiser	M3IETW2L (Earbud)	IC:2099A-M3IETW2L
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	IC:2099A-BTT100
Sennheiser	M3IETW2 C (Charging Case)	CAN ICS-3(B)/NMB-3(B)

## Kuwait

## Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
Sennheiser	M3IETW2 (Momentum True Wireless 2)	Ref. 4870
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	Ref. 4871

## Malaysia

## Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-C (radar sensor)	HIDF15000153
Bosch	FR5CPCCF (radar sensor)	CIDF15000490
Bosch	LRR3 (radar sensor)	CIDF15000490
Bosch	MRR1Rear (radar sensor)	CIDF15000490
Bosch	MRRre14FCR (radar sensor)	CIDF15000490





Manufacturer	Model designation	Radio equipment approval number
Bosch	MRRevo14F (radar sensor)	CIDF15000490
Continental Antenna	RKE213E1 (aerial amplifier)	RAUU/28C/0915/S(15-2703)
Continental Antenna	RKE223E1GN S (aerial amplifier)	RDDK/34B/1219/S(19-5319)
Continental Automotive	CMKG1 (locking system)	RFCP/13A/0220/S(20-0197)
Continental Automotive	MARS Keyless (locking system)	CIDF15000578



Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	D-WMI2020A (control unit)	RGEZ/12A/1019/S(19-4128)
HELLA	DM4 (locking system)	CIDF15000578
Hirschmann	920287A (locking system)	RAUU/63A/0311/S(11-0432)
Hirschmann	920287B (locking system)	RAUU/22C/0615/S(15-1864)
Huf Baolong	TSSRE4A (tyre pressure sensor)	CIDF17000184



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking system)	RAYN/25A/0715/S(15-2385)
HUF	HUF4761 (locking system)	RAAU/16B/1112/S(12-2053)
LEOPOLD KOSTAL	KK1 (locking system)	RAUU/27C/0815/S(15-2953)
MARQUARDT	DC12A (locking system)	RDDK/33A/0317/S(17-0669)



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	RAUU/62A/0311/S(11-0263)
MARQUARDT	DC12K (locking system)	RAUU/62A/0311/S(11-0264)
MARQUARDT	MS2 (locking system)	RDDK/31A/0217/S(17-0405)
MARQUARDT	MS4 (locking system)	RDDK/25B/1019/S(19-0943)



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	RGLO/02A/0720/S(20-2580)
MARQUARDT	MK1 (locking system)	RAAU/14C/0615/S(15-1057)
MARQUARDT	MK2 (locking system)	RAAU/12C/0515/S(15-1059)
MARQUARDT	3350.38 (locking system)	RDDK/17B/0819/S(19-1082)



Manufacturer	Model designation	Radio equipment approval number
Meta System	ITS/TPS (interior protection)	RAVG/18Q/0212/S(11-2068)
Meta System	MUW II (interior protection)	RAVG/17Q/0212/S(11-2067)
Schrader	AG5SP4 (tyre pressure sensor)	RCDD/03A/0615/S(19-2094)
Schrader	AG3PF4 (tyre pressure sensor)	RBEF/28A/0419/S(19-1542)



Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	RBEF/51A/0121/S/(20-5642)
Schrader	MFR (tyre pressure monitoring system control unit)	RAQP/62A/0419/S(19-1694)
Schrader	MFR3 (tyre pressure monitoring system control unit)	RAQP/62A/0419/S(19-1694)



Manufacturer	Model designation	Radio equipment approval number
Veoneer	77GHz MMRV1 (radar sensor)	HIDF15000153
Veoneer	77V12BSM (radar sensor)	HIDF15000153
Veoneer	77V12CRN (radar sensor)	HIDF15000153
Veoneer	77V125CRN (radar sensor)	HIDF15000153
WITTE-Velbert	SDHTAG3NFC (locking system)	RDDK/43B/0420/S(20-1749)

## Morocco

### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
		AGREE PAR L'ANRT MAROC
ADC	ARS4-A (radar sensor)	MR 9490 ANTR 2014-07-23
ADC	ARS4-C (radar sensor)	MR 20231 ANRT 2019-06-27
Bosch	FR5CPCCF (radar sensor)	MR 20575 ANRT 2019-07-29
Bosch	LRR3 (radar sensor)	MR 5371 ANRT 2010 2019-12-05

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensor)	MR 9186 ANTR 2014-04-22
Bosch	MRRre14FCR (radar sensor)	MR 13900 ANTR 2017-05-04
Continental Antenna	RKE213E1 (aerial amplifier)	MR 10631 ANTR 2015-07-16
Continental Antenna	RKE223E1GN S (aerial amplifier)	MR 21174 ANTR 2019-10-14
Continental Automotive	CMKG1 (locking system)	MR 21701 ANTR 2019-12-05
Continental Automotive	MARS Keyless (locking system)	MR 13681 ANTR 2017-04-04

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	MR 14426 ANTR 2017-07-28
Hirschmann	920287A (locking system)	MR 6700 ANTR 2011-11-16
Hirschmann	920287B (locking system)	MR 7260 ANTR 2012-06-13
Huf Baolong	TSSRE4A (tyre pressure monitoring system control unit)	MR 14320 ANTR 2017-07-07
Huf Baolong	TSSSG4G6b (tyre pressure monitoring system control unit)	MR 19561 ANTR 2019-04-26

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking system)	MR 10506 ANTR 2015-06-22
HUF	HUF4761 (locking system)	MR 7829 ANTR 2013-02-14
LEOPOLD KOSTAL	KK1 (locking system)	MR 10697 ANTR 2015-08-05
MARQUARDT	DC12A (locking system)	MR 13429 ANTR 2017-03-03
MARQUARDT	DC12B (locking system)	MR 6698 ANTR 2021-11-04
MARQUARDT	DC12K (locking system)	MR 6699 ANTR 2021-11-04

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	MR 13300 ANTR 2017-02-15
MARQUARDT	MS4 (locking system)	MR 19199 ANTR 2019-03-25
MARQUARDT	MS5 (locking system)	MR 23805 ANRT 2020-04-22
MARQUARDT	MK1 (locking system)	MR 10645 ANTR 2015-07-21
MARQUARDT	MK2 (locking system)	MR 10987 ANTR 2015-10-22
MARQUARDT	3350.38 (locking system)	MR 18817 ANTR 2019-02-12




Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure monitoring system control unit)	MR 10216 ANRT 2015
Schrader	AG3PF4 (tyre pressure sensor)	MR 19241 ANRT 2019
Schrader	BG3FP4 (tyre pressure sensor)	MR00026829 ANRT2020
Schrader	MFR (tyre pressure monitoring system control unit)	MR 19527 ANRT 2019-04-30




Manufacturer	Model designation	Radio equipment approval number
Schrader	MFR3 (tyre pressure monitoring system control unit)	MR 19527 ANRT 2019
Schrader	GG4T (tyre pressure sensor)	MR 14777 ANRT 2017-09-20
Schrader	DG6W2D4 (tyre pressure sensor)	MR 16355 ANRT 2018-04-19
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	MR 6706 ANRT 2011-11-17
Veoneer	77GHz MMRV1 (radar sensor)	MR 10436 ANRT 2015-05-25




Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	MR 20097 ANRT 2019-06-14
Veoneer	77V12CRN (radar sensor)	MR 20149 ANRT 2019-06-19
Veoneer	77V125CRN (radar sensor)	MR 27966 ANRT 2021-03-29
WITTE-Velbert	SDHTAG3NFC (locking system)	MR 23310 ANRT 2020-03-10




## Mexico




## Regulatory radio identification




Manufacturer	Model designation	Radio equipment approval number
		
ADC	ARS4-A (radar sensor)	IFETEL: RCPCOAR14-1191
ADC	ARS4-C (radar sensor)	IFETEL: RLVCOR19-1062
Bosch	LRR3 (radar sensor)	IFETEL: RCPBOLR09-0828
Bosch	MRR1Rear (radar sensor)	IFETEL: RCPBOMR14-0922




Manufacturer	Model designation	Radio equipment approval number
		
Bosch	MRR14FCR (radar sensor)	IFETEL: RCPBOMR17-0598
Continental Antenna	RKE213E1 (aerial amplifier)	IFETEL: RLVKARK15-1741
Continental Antenna	RKE223E1 (aerial amplifier)	IFETEL: RLVCORK19-2174
Continental Automotive	CMKG1 (locking system)	IFETEL: RCPCOM19-2315




		
Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	MARS Keyless (locking system)	IFETEL: RLV DAMA18-1827
Gentex	MUAHL 5 (convenience system)	IFETEL: RCPGEMU15-0448
HELLA	DM4 (locking system)	IFETEL: RLVHEDM17-10
Hirschmann	920287A (locking system)	IFETEL: RLVHI9211-0472

		
Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	IFETEL: RLVHI9212-0608
Huf Baolong	TSSRE4A (tyre pressure sensor)	IFETEL: RLVHUTS17-0806
HUF	HUF14632 (locking system)	IFETEL: RLVHUHU15-1204
HUF	HUF4761 (locking system)	IFETEL: RLVHUHU12-1587




		
Manufacturer	Model designation	Radio equipment approval number
LEOPOLD KOSTAL	KK1 (locking system)	IFETEL: RLVKOKK15-0891
MARQUARDT	DC12A (locking system)	IFETEL: RLV MEDC17-0348
MARQUARDT	DC12B (locking system)	IFETEL: RLV MADC11-0446
MARQUARDT	DC12K (interior protection)	IFETEL: RLV MADC11-0446




		
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	IFETEL: RLVMA MS17-0222
MARQUARDT	MS4 (locking system)	IFETEL: RLVMA MS19-0449
MARQUARDT	MS5 (locking system)	IFETEL: RLVME MS20-0957
MARQUARDT	MK1 (locking system)	IFETEL: RLVMA MK15-1042

		
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	IFETEL: RLVMA MK15-1043
MARQUARDT	3350.38 (locking system)	IFETEL: RCPMA3319-0530
Schrader	AG5SP4 (tyre pressure sensor)	IFETEL: RCPSCAG15-0627
Schrader	AG3PF4 (tyre pressure sensor)	IFETEL: RLVSCAG19-0705

		
Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	IFETEL: RLVSCBG21-0750
Schrader	MFR (tyre pressure sensor)	IFETEL: RLVSCMF15-0959
Schrader	MFR3 (tyre pressure sensor)	IFETEL: RLVSCMF19-0777
Schrader	GG4T (tyre pressure sensor)	IFETEL: RLVSCGG17-1665




		
Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure sensor)	IFETEL: RLVSCDG18-04
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	IFETEL: RCPSCMR14-062
Sennheiser	M3IETW2R (Earbud)	IFETEL: RCPSEM320-0435-A1
Sennheiser	M3IETW2L (Earbud)	IFETEL: RCPSEM320-0435

		
Manufacturer	Model designation	Radio equipment approval number
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	IFETEL: RCPSEBT18-1407
WITTE-Velbert	SDHTAG3NFC (locking system)	IFETEL: RCPWISD20-0943

## Mongolia

### Regulatory radio identifiers

	Manufacturer	Model designation	Radio equipment approval number
	Continental Automotive	CMKG1 (locking system)	A19000633
	Continental Automotive	MARS Keyless (locking system)	A18000328
	HELLA	DM4 (locking system)	A18000329
	MARQUARDT	DC12A (locking system)	A19000400
	MARQUARDT	DC12B (locking system)	A19000371



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	A19000372
MARQUARDT	MS2 (locking system)	A18000289
MARQUARDT	MS4 (locking system)	A19000516
MARQUARDT	MS5 (locking system)	A20000085
MARQUARDT	MK1 (locking system)	A19000374



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	A19000374
WITTE-Velbert	SDHTAG3NFC (locking system)	A20000067

## Niger

### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	029/ARCEP/DG/19
Continental Automotive	MARS Keyless (locking system)	083/ARCEP/DG/19
HELLA	DM4 (locking system)	082/ARCEP/DG/19
Hirschmann	920287A (locking system)	097/ARCEP/DG/19
Hirschmann	920287B (locking system)	098/ARCEP/DG/19

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	053/ARCEP/DG/19
KATHREIN	RKE223E1 (locking system)	029/ARCEP/DG/19
LEOPOLD KOSTAL	KK1 (locking system)	037/ARCEP/DG/19
MARQUARDT	DC12A (locking system)	010/ARCEP/DG/19
MARQUARDT	DC12B (locking system)	008/ARCEP/DG/19
MARQUARDT	DC12K (locking system)	009/ARCEP/DG/19

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	014/ARCEP/DG/19
MARQUARDT	MS4 (locking system)	HOMO-0096/ARCEP/DG/2019
MARQUARDT	MK1 (locking system)	034/ARCEP/DG/19
MARQUARDT	MK2 (locking system)	035/ARCEP/DG/19
MARQUARDT	3350.38 (locking system)	015/ARCEP/DG/19
MARQUARDT	MU1 (locking system)	HOMO-0095/ARCEP/DG/2019

## Nigeria

### Regulatory radio identification

Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS4-C (radar sensor)
Bosch	FR5CPCCF (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRRre14FCR (radar sensor)
Continental Antenna	RKE213E1 (aerial amplifier)
Continental Antenna	RKE223E1GNS (aerial amplifier)
Continental Automotive	CMKG1 (locking system)

Manufacturer	Model designation
Continental Automotive	MARS Keyless (locking system)
HELLA	DM4 (locking system)
Hirschmann	920287A (locking system)
Hirschmann	920287B (locking system)
HUF	HUF14632 (locking system)
HUF	HUF4761 (locking system)
LEOPOLD KOSTAL	KK1 (locking system)
MARQUARDT	DC12A (locking system)
MARQUARDT	DC12B (locking system)

Manufacturer	Model designation
MARQUARDT	DC12K (locking system)
MARQUARDT	MS2 (locking system)
MARQUARDT	MS4 (locking system)
MARQUARDT	MS5 (locking system)
MARQUARDT	MK1 (locking system)
MARQUARDT	MK2 (locking system)
MARQUARDT	3350.38 (locking system)
Schrader	AG3PF4 (tyre pressure sensor)
Schrader	BG3FP4 (tyre pressure sensor)
Schrader	MFR3 (control unit)
Veoneer	77V12BSM (radar sensor)

Manufacturer	Model designation
Veoneer	77V12CRN (radar sensor)
Veoneer	77V125CRN (radar sensor)
WITTE-Velbert	SDHTAG3NFC (locking system)

### Oman

#### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	TRA/TA-R/2016/14 D080134
ADC	ARS4-C (radar sensor)	TRA/TA-R/7769/19 D172338

Manufacturer	Model designation	Radio equipment approval number
Bosch	FR5CPCCF (radar sensor)	TRA/TA-R/7983/19 D172338
Bosch	LRR3 (radar sensor)	TRA/TA-R/1049/09
Bosch	MRR1Rear (radar sensor)	TRA/TA-R/1849/14
Bosch	MRRre14FCR (radar sensor)	TRA/TA-R/4353/17
Continental Antenna	RKE213E1 (aerial amplifier)	TRA/TA-R/2715/15 D090258
Continental Antenna	RKE223E1GN S (aerial amplifier)	TRA/TA-R/8337/19

Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	TRA/TA-R/8642/19 D172338
Continental Automotive	MARS Keyless (locking system)	TRA/TA-R/4158/17 D080134
HELLA	DM4 (locking system)	TRA/TA-R/4548/17 D080134
Hirschmann	920287A (locking system)	TRA/TA-R/0210/11 D080353
Hirschmann	920287B (locking system)	TRA/TA-R/0655/12 D080353

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure sensor)	TRA/TA-R/4516/17 D100428
Huf Baolong	TSSSG4G6b (tyre pressure sensor)	TTRA/TA-R/7506/19
HUF	HUF14632 (locking system)	TRA/TA-R/2665/15
HUF	HUF4761 (locking system)	TRA/TA-R/0920/12
LEOPOLD KOSTAL	KK1 (locking system)	TRA/TA-R/3129/16
MARQUARDT	DC12A (locking system)	TRA/TA-RD/4056/17 D100428

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	TRA/TA-R/ 0227/11 D080353
MARQUARDT	DC12K (locking system)	TRA/TA-R/ 0228/11 D080353
MARQUARDT	MS2 (locking system)	TRA/TA-R/ 4136/17 D080134
MARQUARDT	MS4 (locking system)	TRA/TA-R/ 7316/19 D172249
MARQUARDT	MS5 (locking system)	TRA/TA-R/ 9324/20 D100428

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	TRA/TA-R/ 2848/15 D080353
MARQUARDT	MK2 (locking system)	TRA/TA-R/ 2900/15 D080353
MARQUARDT	3350.38 (locking system)	TRA/TA-R/ 7051/19 D172249
Schrader	AG5SP4 (tyre pressure sensor)	TTRA R/ 2380/15 D080134
Schrader	AG3PF4 (tyre pressure sensor)	TRA R/ 7287/19 D172338

Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	TRA/TA-R/ 10694/20 D172338
Schrader	MFR (tyre pressure monitoring system control unit)	TRA/TA-R/ 7464/19 D090258
Schrader	MFR3 (tyre pressure monitoring system control unit)	TRA/TA-R/ 7467/19 D090258
Schrader	GG4T (tyre pressure sensor)	TRA/TA-R/ 4686/17 D080134

Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure sensor)	TRA/TA-R/ 5511/18 D172249
Sennheiser	M3IETW2R (Earbud)	TRA/TA-R/ 10988/21
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	TRA/TA-R/ 10976/21
Veoneer	77GHz MMRV1 (radar sensor)	TRA/TA-R/ 2706/15
Veoneer	77V12BSM (radar sensor)	TRA/TA-R/ 7706/19 D172338
Veoneer	77V12CRN (radar sensor)	TRA/TA-R/ 7707/19 D172338

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V125CRN (radar sensor)	TRA/TA-R/ 11335/21 D172338
WITTE-Velbert	SDHTAG3NFC (locking system)	TRA/TA-R/ 9150/20

## Pakistan

## Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	TAC NO: 9.9014/2019
ADC	ARS4-C (radar sensor)	TAC NO: 9.9389/2019
Bosch	FR5CPCCF (radar sensor)	TAC NO: 9.198/2020
Continental Antenna	RKE213E1 (aerial amplifier)	TAC NO: 9.142/2016



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223E1GN S (aerial amplifier)	TAC NO: 9.100169/2019
Continental Automotive	CMKG1 (locking system)	TAC NO: 9.100175/2019
Continental Automotive	MARS Keyless (locking system)	TAC NO: 9.213/2017
Continental Automotive	D-WMI2020A (control unit)	TAC NO: 9.9836/2019
HELLA	DM4 (locking system)	TAC NO: 9.409/2017



Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	TAC NO: 9.845/2013
Hirschmann	920287B (locking system)	TAC NO: 9.846/2013
HUF Baolong	TSSRE4A (tyre pressure sensor)	TAC NO: 9.620/2017
HUF	HUF14632 (locking system)	TAC NO: 9.598/2015



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	TAC NO: 9.790/2013
LEOPOLD KOSTAL	KK1 (locking system)	TAC NO: 9.118/2016
MARQUARDT	DC12A (locking system)	TAC NO: 9.131/2017
MARQUARDT	DC12B (locking system)	TAC NO: 9.829/2013
MARQUARDT	DC12K (locking system)	TAC NO: 9.830/2013
MARQUARDT	MS2 (locking system)	TAC NO: 9.133/2017





Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS4 (locking system)	TAC NO: 9.100171/2019
MARQUARDT	MS5 (locking system)	TAC.NO: 9.774/2020
MARQUARDT	MK1 (locking system)	TAC NO: 9.486/2015
MARQUARDT	MK2 (locking system)	TAC NO: 9.497/2015
Schrader	AG3PF4 (tyre pressure sensor)	TAC NO:9.039/2016




Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure sensor)	TAC NO:9.9167/2019
Schrader	BG3FP4 (tyre pressure sensor)	TAC NO:9.68/2021
Schrader	GG4T (tyre pressure sensor)	TAC NO:9.538/2017
Schrader	DG6W2D4 (tyre pressure sensor)	TAC NO: 9.789/2018





Manufacturer	Model designation	Radio equipment approval number
Veoneer	77GHz MMRV1 (radar sensor)	TAC NO: 9.9284/2019
Veoneer	77V12BSM (radar sensor)	TAC NO: 9.9391/2019
Veoneer	77V12CRN (radar sensor)	TAC NO: 9.9391/2019
Veoneer	77V125CRN (radar sensor)	TAC NO: 9.477/2021
WITTE-Velbert	SDHTAG3NFC (locking system)	TAC NO: 9.527/2020

## Paraguay

## Regulatory radio identification

		
Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	2019-05-I-0271
ADC	ARS4-C (radar sensor)	2019-11-I-0602
Bosch	FR5CPCCF (radar sensor)	2019-09-I-0508
Bosch	MRRre14FCR (radar sensor)	2017-06-I-0000162
Bosch	MRR1Rear (radar sensor)	2019-05-I-000236

		
Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	2021-02-I-00101 y 2016-02-I-0000038
Continental Antenna	RKE223E1GN S (aerial amplifier)	2019-12-I-0656
Continental Automotive	CMKG1 (locking system)	2020-02-I-0110
Continental Automotive	MARS Keyless (locking system)	2017-05-I-0000136
HELLA	DM4 (locking system)	2017-08-I_0000261

		
Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	2016-5-I-000134 y 2011-06-I-0059
Hirschmann	920287B (locking system)	2017-04-I-0000119 y 2012-05-I-0096
Huf Baolong	TSSRE4A (tyre pressure sensor)	2017-09-I-0000328
HUF	HUF14632 (locking system)	2020-06-I-0284 y 2015-08-I-0000226




Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	2017-12-I-0000409 y 2012-10-I-0178
LEOPOLD KOSTAL	KK1 (locking system)	2015-06-I-0000181
MARQUARDT	DC12A (locking system)	2017-07-I-0000199
MARQUARDT	DC12B (locking system)	2021-05-I-0304; 2016-5-I-000144 y 2011-06-I-0067




Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	2021-05-I-0305; 2016-5-I-000143 y 2011-06-I-0068
MARQUARDT	MS2 (locking system)	2017-04-I-0000101
MARQUARDT	MS4 (locking system)	2019-10-I-0581
MARQUARDT	MS5 (locking system)	2020-08-I-0604



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	2020-07-I-0390 y 2015-07-I-0000200
MARQUARDT	MK2 (locking system)	2020-07-I-0391 y 2015-07-I-0000201
MARQUARDT	3350.38 (locking system)	2019-04-I-000216
Schrader	AG5SP4 (tyre pressure sensor)	2015-04-I-0000150

		
Manufacturer	Model designation	Radio equipment approval number
Schrader	AG3PF4 (tyre pressure sensor)	2019-05-1-00 0261
Schrader	BG3FP4 (tyre pressure sensor)	2021-02-1-0063
Schrader	GG4T (tyre pressure sensor)	2020-02-1-00 44
Schrader	DG6W2D4 (tyre pressure sensor)	2019-11-1-06 32

		
Manufacturer	Model designation	Radio equipment approval number
Veoneer	77GHz MMRV1 (radar sensor)	2020-07-1-0510
Veoneer	77V12BSM (radar sensor)	2019-07-1-0399
Veoneer	77V12CRN (radar sensor)	2019-07-1-0398
Veoneer	77V125CRN (radar sensor)	2021-04-1-0188
WITTE-Velbert	SDHTAG3NFC (locking system)	2020-06-1-0326

#### Further specific information

#### Charging unit for wireless charging of mobile devices (WMI)

D-WMI2020A:

This vehicle has the following radio frequency component approved by CONATEL - Paraguay: Wireless interface for mobile devices, Continental brand, model D-WMI2020A manufactured by Continental Automotive GmbH.

Radio equipment approval number: 2019-11-1-0600

#### Rear Seat Entertainment System:

DAIRSE:

Importer: Condor S.A.C.I Casa Central, J.B. Gorostiaga 315 y Guaraníes, Asunción, Paraguay, (595 21) 569 7000, sac@condor.com.py

## Philippines

## Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	ESD-1409466 C
ADC	ARS4-C (radar sensor)	ESD-1920226 C
Bosch	FR5CPCCF (radar sensor)	ESD-1920531 C
Bosch	MRR1Rear (radar sensor)	ESD-1408917 C
Bosch	MRRe14FCR (radar sensor)	ESD-1716172 C



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	ESD-1511856 C
Continental Antenna	RKE223E1GN S (aerial amplifier)	ESD-1921015 C
Continental Automotive	CMKG1 (locking system)	ESD-2021556 C
Continental Automotive	MARS Keyless (locking system)	ESD-1714865 C
HELLA	DM4 (locking system)	ESD-1715539 C



Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	ESD-1105246 C
Hirschmann	920287B (locking system)	ESD-1206044 C
Huf Baolong	TSSRE4A (tyre pressure sensor)	ESD-1715393 C
HUF	HUF14632 (locking system)	ESD-1511236 C



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	ESD-1206521 C
LEOPOLD KOSTAL	KK1 (locking system)	ESD-1510698 C
MARQUARDT	DC12A (locking system)	ESD-1714489 C
MARQUARDT	DC12B (locking system)	ESD-1105216 C
MARQUARDT	DC12K (locking system)	ESD-1105215 C
MARQUARDT	MS2 (locking system)	ESD-1715652 C



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS4 (locking system)	ESD-1919133 C
MARQUARDT	MS5 (locking system)	ESD-2022426 C
MARQUARDT	MK1 (locking system)	ESD-1510644 C
MARQUARDT	MK2 (locking system)	ESD-1510645 C
MARQUARDT	3350.38 (locking system)	ESD-1919198 C



Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure sensor)	ESD-1715393 C
Schrader	AG3PF4 (tyre pressure sensor)	ESD-1919585 C
Schrader	BG3FP4 (tyre pressure sensor)	ESD-RCE-2124846
Schrader	GG4T (tyre pressure sensor)	ESD-1715977 C



Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure sensor)	ESD-1817081 C
Veoneer	77GHz MMRV1 (radar sensor)	ESD-1510921 C
WITTE-Velbert	SDHTAG3NFC (locking system)	ESD-2022599 C

## Zambia


### Regulatory radio identification




Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223E1 (aerial amplifier)	ZMB/ ZICTA/TA/ 2019/3/11
Continental Automotive	MARS Keyless (locking system)	ZMB/ ZICTA/TA/ 2019/3/3
HELLA	DM4 (locking system)	ZMB/ ZICTA/TA/ 2019/3/4
Hirschmann	920287A (locking system)	ZMB/ ZICTA/TA/ 2019/7/12




Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	ZMB/ ZICTA/TA/ 2019/7/11
HUF	HUF4761 (locking system)	ZMB/ ZICTA/TA/ 2018/12/18
LEOPOLD KOSTAL	KK1 (locking system)	ZMB/ ZICTA/TA/ 2019/3/48
MARQUARDT	DC12A (locking system)	ZMB/ ZICTA/TA/ 2019/5/16

		
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	ZMB/ ZICTA/TA/ 2019/5/17
MARQUARDT	DC12K (locking system)	ZMB/ ZICTA/TA/ 2019/5/18
MARQUARDT	MS2 (locking system)	ZMB/ ZICTA/TA/ 2018/9/30
MARQUARDT	MS4 (locking system)	ZMB/ ZICTA/TA/ 2019/7/123

		
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	ZMB/ ZICTA/TA/ 2019/3/20
MARQUARDT	MK2 (locking system)	ZMB/ ZICTA/TA/ 2019/3/21
MARQUARDT	3350.38 (locking system)	ZMB/ ZICTA/TA/ 2019/3/6
MARQUARDT	MU1 (locking system)	ZMB/ ZICTA/TA/ 2019/7/124

## Serbia

## Regulatory radio identification

		
Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	I011 20
ADC	ARS4-C (radar sensor)	I011 19
Bosch	FR5CPCCF (radar sensor)	I011 19
Bosch	LRR3 (radar sensor)	I011 19
Bosch	MRR1Rear (radar sensor)	I011 17





Manufacturer	Model designation	Radio equipment approval number
Bosch	MRRre14FCR (radar sensor)	I005 17
Continental Antenna	RKE213E1 (aerial amplifier)	I005 21
Continental Antenna	RKE223E1GN S (aerial amplifier)	I005 19
Continental Automotive	CMKG1 (locking system)	I005 20
Continental Automotive	MARS Keyless (locking system)	I005 17



Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	I005 20
Hirschmann	920287A (locking system)	I005 18
Hirschmann	920287B (locking system)	I005 18
Huf Baolong	TSSRE4A (tyre pressure sensor)	I005 20
HUF	HUF14632 (locking system)	I005 21



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	I005 21
LEOPOLD KOSTAL	KK1 (locking system)	I005 18
MARQUARDT	DC12A (locking system)	I005 20
MARQUARDT	DC12B (locking system)	I005 20
MARQUARDT	DC12K (locking system)	I005 20
MARQUARDT	MS2 (locking system)	I011 17



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS4 (locking system)	I005 19
MARQUARDT	MS5 (locking system)	I005 20
MARQUARDT	MK1 (locking system)	I005 21
MARQUARDT	MK2 (locking system)	I005 21
MARQUARDT	3350.38 (locking system)	34540-124/19-5



Manufacturer	Model designation	Radio equipment approval number
Meta System	MUW II (interior protection)	I011 19
Schrader	AG5SP4 (tyre pressure sensor)	I005 15
Schrader	AG3PF4 (tyre pressure sensor)	I005 15
Schrader	BG3FP4 (tyre pressure sensor)	I005 20



Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure sensor)	I005 17
Schrader	DG6W2D4 (tyre pressure sensor)	I005 18
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	I011 11
Veoneer	77GHz MMRV1 (radar sensor)	I011 18



Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	I011 19
Veoneer	77V12CRN (radar sensor)	I011 19
Veoneer	77V125CRN (radar sensor)	I038 21
WITTE-Velbert	SDHTAG3NFC (locking system)	I005 20

## Singapore

### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
		Complies with IMDA Standards
ADC	ARS4-A (radar sensor)	DA103365
ADC	ARS4-C (radar sensor)	DA103365
Bosch	FR5CPCCF (radar sensor)	DA103365
Bosch	LRR3 (radar sensor)	DA103365
Bosch	MRR1Rear (radar sensor)	DA103365
Bosch	MRRre14FCR (radar sensor)	DA103365

Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	DA105282
Continental Antenna	RKE223E1GN S (aerial amplifier)	DA107248
Continental Automotive	CMKG1 (locking system)	DA103365
Continental Automotive	MARS Keyless (locking system)	DA103365
Continental Automotive	D-WMI2020A (control unit)	DA103365
Harman Becker	HERMES 3.0 (communication module)	DB107091

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	DA103365
Hirschmann	920287A (locking system)	DA103365
Hirschmann	920287B (locking system)	DA103365
HUF Baolong	TSSRE4A (tyre pressure sensor)	DA30668
HUF Baolong	TSSSG4G6b (tyre pressure sensor)	DA28467
HUF	HUF14632 (locking system)	DA105282

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	DA103365
LEOPOLD KOSTAL	KK1 (locking system)	DA103365
MARQUARDT	DC12A (locking system)	DA103787
MARQUARDT	DC12B (locking system)	DA103365
MARQUARDT	DC12K (locking system)	DA103365
MARQUARDT	MS2 (locking system)	DA103787
MARQUARDT	MS4 (locking system)	DA103787

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	DB107091
MARQUARDT	MK1 (locking system)	DA103365
MARQUARDT	MK2 (locking system)	DA103365
MARQUARDT	3350.38 (locking system)	DA103787
Meta System	ITS/TPS (interior protection)	DA103365
Meta System	MUW II (interior protection)	DA103365

Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure sensor)	DA103787
Schrader	AG3PF4 (tyre pressure sensor)	DA107968
Schrader	BG3FP4 (tyre pressure sensor)	DA103365
Schrader	GG4T (tyre pressure sensor)	DA105282
Schrader	DG6W2D4 (tyre pressure sensor)	DA105282
Veoneer	77GHz MMRV1 (radar sensor)	DA103365

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	DA103365
Veoneer	77V12CRN (radar sensor)	DA103365
Veoneer	77V125CRN (radar sensor)	DA103365
WITTE-Velbert	SDHTAG3NFC (locking system)	DA107248

## South Africa

### Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	TA-2014/1637
ADC	ARS4-C (radar sensor)	TA-2019/1595
Bosch	FR5CPCCF (radar sensor)	TA-2019/1200
Bosch	MRR1Rear (radar sensor)	TA-2014/212
Bosch	MRRre14FCR (radar sensor)	TA-2017/2013




Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	TA-2009/464
Continental Antenna	RKE213E1 (aerial amplifier)	TA-2015/1438
Continental Antenna	RKE223E1 (aerial amplifier)	TA-2020/043
Continental Automotive	CMKG1 (locking system)	TA-2019/5405
Continental Automotive	MARS Keyless (locking system)	TA-2016/3500




Manufacturer	Model designation	Radio equipment approval number
Gentex	MUAHL 5 (convenience system)	TA-2015/1386
HELLA	DM4 (locking system)	TA-2017/2518
Hirschmann	920287A (locking system)	TA-2011/374
Hirschmann	920287B (locking system)	TA-2013/1262
Huf Baolong	TSSRE4A (tyre pressure sensor)	TA-2017/1393




Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure sensor)	TA-2019/1440
HUF	HUF14632 (locking system)	TA-2015/1077
HUF	HUF4761 (locking system)	TA-2012/1543
LEOPOLD KOSTAL	KK1 (locking system)	TA-2015/595
Meta System	ITS Master (interior protection)	TA-2011/1636



Manufacturer	Model designation	Radio equipment approval number
Meta System	ITS Sensor (interior protection)	TA-2011/1227
Meta System	MUW II (interior protection)	TA-2019/261
MARQUARDT	DC12A (locking system)	TA-2017/312
MARQUARDT	DC12B (locking system)	TA-2011/370
MARQUARDT	DC12K (locking system)	TA-2012/1542



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	TA-2016/3314
MARQUARDT	MS4 (locking system)	TA-2019/843
MARQUARDT	MS5 (locking system)	TA-2020/5765
MARQUARDT	MK1 (locking system)	TA-2015/179
MARQUARDT	MK2 (locking system)	TA-2015/180
MARQUARDT	3350.38 (locking system)	TA-2018/3985



Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure sensor)	TA-2015/072
Schrader	AG3PF4 (tyre pressure sensor)	TA-2019-133
Schrader	BG3FP4 (tyre pressure sensor)	TA-2020/773
Schrader	MFR (control unit)	TA-2019/273
Schrader	MFR3 (control unit)	TA-2019-273



Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure sensor)	TA-2017/3884
Schrader	DG6W2D4 (tyre pressure sensor)	TA-2017/2933
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	TA-2011/1370
Veoneer	77GHz MMRV1 (radar sensor)	TA-2015/2087



Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	TA-2019/1380
Veoneer	77V12CRN (radar sensor)	TA-2019/1382
Veoneer	77V125CRN (radar sensor)	TA-2021/0150
WITTE-Velbert	SDHTAG3NFC (locking system)	TA-2020/055

## South Korea

## Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223E1 (aerial amplifier)	R-C-Ca3-RKE223E1
Huf Baolong	TSSRE4A (tyre pressure sensor)	
HUF	HUF14632 (locking system)	MSIP-CRM-HHF-HUF-14632
Schrader	MFR (control unit)	MSIP-REM-SRD-MFR





Manufacturer	Model designation	Radio equipment approval number
Schrader	MFR3 (control unit)	KCC R-R-SRD-MFR3A
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	KCC-REM-SRD-MRXMC34MA4
Schrader	AG5SP4 (tyre pressure sensor)	MSIP-CRM-SRD-AG5SP4
Schrader	AG3PF4 (tyre pressure sensor)	R-C-SRD-AG3PF4



Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	R-C-SRD-BG3FP4
Schrader	GG4T (tyre pressure sensor)	MSIP-CRM-SRD-GG4T
Schrader	DG6W2D4 (tyre pressure sensor)	R-CRM-SRD-DG6W2D4

## Togo

### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE223E1 (aerial amplifier)	No. 024/19
Continental Automotive	MARS Keyless (locking system)	No. 040/19
HELLA	DM4 (locking system)	No. 039/19
Hirschmann	920287A (locking system)	No. 089/19
Hirschmann	920287B (locking system)	No. 088/19

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	No. 041/19
LEOPOLD KOSTAL	KK1 (locking system)	No. 060/19
MARQUARDT	DC12A (locking system)	No. 055/19
MARQUARDT	DC12B (locking system)	No. 057/19
MARQUARDT	DC12K (locking system)	No. 056/19
MARQUARDT	MS2 (locking system)	No. 008/19
MARQUARDT	MS4 (locking system)	No. 101/19

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	No. 021/19
MARQUARDT	MK2 (locking system)	No. 022/19
MARQUARDT	3350.38 (locking system)	No. 016/20

## Ukraine

## Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	UKR.355-123 /19
Continental Antenna	RKE223E1GN S (aerial amplifier)	UA.R.TR.052.682-19
Continental Automotive	CMKG1 (locking system)	UA1.001.021 175-20-TE
Continental Automotive	MARS Keyless (locking system)	RTS.UKR.355-34/18



Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	UA.TR.109
Hirschmann	920287A (locking system)	UKR.355-7/20
Hirschmann	920287B (locking system)	UKR.355-8/20
Huf Baolong	TSSRE4A (tyre pressure sensor)	UA 1.001.01856 8-19-TE



Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure monitoring system control unit)	UA 1.001.01928 9-19-TE
HUF	HUF14632 (locking system)	UKR.355-113 /19
HUF	HUF4761 (locking system)	UA1.001.018 653-19-TE
LEOPOLD KOSTAL	KK1 (locking system)	10094.00668 2-19



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	UA.R.TR.052.307-19
MARQUARDT	DC12B (locking system)	UA.R.TR.052.308-19
MARQUARDT	DC12K (locking system)	UA.R.TR.052.309-19
MARQUARDT	MS2 (locking system)	UA1.001.019 129-19-TE
MARQUARDT	MS4 (locking system)	UA.R.TR.052.528-19
MARQUARDT	MS5 (locking system)	632.16-CET



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	UA1.001.019 233-19-TE
MARQUARDT	MK2 (locking system)	UA1.001.019 234-19-TE
MARQUARDT	3350.38 (locking system)	UA1.001.018 888-19-TE
Schrader	AG5SP4 (tyre pressure sensor)	UA.TR. 032
Schrader	AG3PF4 (tyre pressure sensor)	UA-TR-001



Manufacturer	Model designation	Radio equipment approval number
Schrader	BG3FP4 (tyre pressure sensor)	UA-TR-109
Schrader	GG4T (tyre pressure sensor)	UA.TR. 028
Schrader	DG6W2D4 (tyre pressure sensor)	UA.TR. 028
WITTE-Velbert	SDHTAG3NFC (locking system)	UA.R.TR.052. 120-20

## Uzbekistan

## Regulatory radio identification



Manufacturer	Model designation
Continental Automotive	CMKG1 (locking system)
HELLA	DM4 (locking system)
MARQUARDT	DC12A (locking system)
MARQUARDT	DC12B (locking system)
MARQUARDT	DC12K (locking system)
MARQUARDT	MS2 (locking system)
MARQUARDT	MS4 (locking system)




Manufacturer	Model designation
MARQUARDT	MS5 (locking system)
MARQUARDT	MK1 (locking system)
MARQUARDT	MK2 (locking system)
MARQUARDT	3350.38 (locking system)
WITTE-Velbert	SDHTAG3NFC (locking system)


United Arab Emirates

Regulatory radio identification




Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	TA RTTE: 58296/17, DA40068/15 



Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-C (radar sensor)	TA RTTE: 77062/19, DA40068/15 



Manufacturer	Model designation	Radio equipment approval number
Bosch	FR5CPCCF (radar sensor)	TA RTTE: 74533/19, DA36758/14 
Continental Antenna	RKE213E1 (aerial amplifier)	TRA ER64693/18, DA65993/17
Continental Antenna	RKE223E1GN S (aerial amplifier)	TRA E76442/19, DA65993/17



Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	TRA ER77964/20, DA0018994/09
Continental Automotive	MARS Keyless (locking system)	TRA ER56005/15, DA44932/15
Gentex	MUAHL 5 (convenience system)	TRA ER41849/15, DA35176/14
Haram Becker	HERMES 3.0 (communication module)	TRA ER03601/21, DA0028019/10



Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	TRA ER56616/17, DA44932/15
Hirschmann	920287A (locking system)	TRA ER52213/17, DA35219/14
Hirschmann	920287B (locking system)	TRA ER42011/5, DA35219/14
Huf Baolong	TSSRE4A (tyre pressure sensor)	TRA ER57806/17, DA36976/14



Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure monitoring system control unit)	TRA ER7307/19, DA0086237/12
HUF	HUF14632 (locking system)	TRA ER63716/18, DA36976/14
HUF	HUF4761 (locking system)	TRA ER55496/17, DA36976/14
LEOPOLD KOSTAL	KK1 (locking system)	TRA ER62622/18, DA0105247/13



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	TRA ER53465/17, DA0018994/09
MARQUARDT	DC12B (locking system)	TRA ER0067828/11, DA0018994/09
MARQUARDT	DC12K (locking system)	TRA ER0067829/11, DA0018994/09



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	TRA ER52668/17, DA0018994/09
MARQUARDT	MS4 (locking system)	TRA ER71616/19, DA0018994/09
MARQUARDT	MS5 (locking system)	TRA ER80720/20, DA0018994/09



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	TRA ER64145/18, DA0018994/09
MARQUARDT	MK2 (locking system)	TRA ER64146/18, DA0018994/09
MARQUARDT	3350.38 (locking system)	TRA ER69280/19, 0018994/09
Schrader	AG5SP4 (tyre pressure sensor)	TRA ER37156/15, DA0047074/10



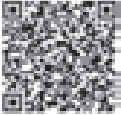
Manufacturer	Model designation	Radio equipment approval number
Schrader	AG3PF4 (tyre pressure sensor)	TRA ER70533/19, DA0047074/10
Schrader	BG3FP4 (tyre pressure sensor)	TRA ER96175/21, DA0047074/10
Schrader	GG4T (tyre pressure sensor)	TRA ER57985/17, DA0047074/10




Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure sensor)	TRA ER960528/18, DA0047074/10
Schrader	MC34MA4 (tyre pressure monitoring system control unit)	TRA ER37066/15, DA0047074/10
Sennheiser	M3IETW2L (Earbud)	ER78231/20
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	ER64728/18






Manufacturer	Model designation	Radio equipment approval number
Veoneer	77GHz MMRV1 (radar sensor)	TA RTTE: ER96352/21; 0020858/10 




Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	TA RTTE: ER72324/19; 0020858/10 



Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12CRN (radar sensor)	TA RTTE: ER72323/19; 0020858/10 



Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V125CRN (radar sensor)	TA RTTE: ER95775/21; 0020858/10 
WITTE-Velbert	SDHTAG3NFC (locking system)	TRA ER79695/20, DA0018994/ 09

## United Kingdom

## Regulatory radio identification



Manufacturer	Model designation
Huf Baolong	TSSRE4A (tyre pressure sensor)
Schrader	AG5SP4 (tyre pressure sensor)
Schrader	AG3PF4 (tyre pressure sensor)
Schrader	BG3FP4 (tyre pressure sensor)
Schrader	GG4T (tyre pressure sensor)
Schrader	DG6W2D4 (tyre pressure sensor)

## Further specific information

## Charging unit for wireless charging of mobile devices (WMI)

D-WMI2016A, D-WMI2017A, D-WMI2017B:

Restrictions or Requirements in the UK: A separation distance of at least 10 cm between all persons and the device must be provided at all times. The Device must not be co-located or operating in conjunction with any other antenna or transmitter.

D-WMI2020A:

Restrictions or Requirements in the UK: A separation distance of at least 0 cm between all persons and the device must be provided at all times. The Device must not be co-located or operating in conjunction with any other antenna or transmitter.

## United States

### Regulatory radio identification

Manufacturer	Model designation	Radio equipment approval number
Sennheiser	M3IETW2R (Earbud)	FCC ID: DMOM3IETW 2R
Sennheiser	M3IETW2L (Earbud)	FCC ID: DMOM3IETW 2L
Sennheiser	BTT100 (Bluetooth Audio Transmitter)	FCC ID: DMOBTT100

### Information on installation clearances

#### Charging unit for wireless charging of mobile devices (WMI)

The charging unit for wireless charging of mobile devices (WMI) complies with FCC and IC radiation exposure limits set forth for an uncontrolled envi-

ronment. This equipment should be installed and operated with a minimum distance of 0 cm (in contact) between the source of radiation and your body. This transmitter must not be placed in the same location as or used at the same time as another transmitter or aerial.

#### Rear Seat Entertainment System:

**USA:** "This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device must not cause any harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device must be installed and used at a distance of at least 6 cm from the body."

**Canada:** "This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This

device must not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device."

This equipment complies with ISED radiation exposure limits established for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 5 cm between the radiation source and your body."

#### Radar sensors

ARS4-C (ADC), ARS4-B (ADC), ARS4-A (ADC), FR5CPCCF (Bosch), MRR1REAR (Bosch), MRREVO14F (Bosch), LRR3 (Bosch), 77V12BSM (Veoneer), 77V12CRN (Veoneer), MMRV1 (Veoneer)

**For the USA only:** Information on exposure to high-frequency radiation:

This equipment complies with FCC radiation exposure limits established for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 20 cm between the radiation source and your body.

This transmitter must not be placed in the same location as or used at the same time as another aerial or transmitter.

**For Canada only:** This equipment should be installed and operated with a minimum distance of 20 cm between the radiation source and your body.

#### BT Audio Transmitter (BTT100):

This equipment complies with FCC and IC radiation exposure limits established for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 9 cm between the radiation source and your body.

This transmitter must not be placed in the same location as or used at the same time as another aerial or transmitter.

## Vietnam

### Regulatory radio identification



Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	SUNTECH VN C00082015
ADC	ARS4-C (radar sensor)	SUNTECH VN C00082015
Bosch	FR5CPCCF (radar sensor)	SUNTECH VN C00082015
Bosch	MRR1Rear (radar sensor)	SUNTECH VN C00082015
Bosch	MRRre14FCR (radar sensor)	SUNTECH VN C00082015



Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	Suntech Vietnam Technology Company Limited C027415111 8AF04A2
Continental Antenna	RKE223E1GN S (aerial amplifier)	Suntech Vietnam Technology Company Limited B152201112 1AF04A3



Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	Suntech Vietnam Technology Company Limited C000107012 0AF04A2
Continental Automotive	MARS Keyless (locking system)	Mercedes-Benz Vietnam Company Limited B074824041 9AF04A2



Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	Mercedes-Benz Vietnam Company Limited CO20403032 1AF04A3
Huf Baolong	TSSRE4A (tyre pressure sensor)	C011220071 7AF04A2
LEOPOLD KOSTAL	KK1 (locking system)	Mercedes-Benz Vietnam Company Limited C031314042 1AF0403



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	Suntech Vietnam Technology Company Limited C020803032 1AF04A3
MARQUARDT	DC12B (locking system)	Suntech Vietnam Technology Company Limited C007621012 1AF04A3



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	Suntech Vietnam Technology Company Limited C007721012 1AF04A3
MARQUARDT	MS2 (locking system)	Suntech Vietnam Technology Company Limited C007521012 1AF04A3



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS4 (locking system)	Suntech Vietnam Technology Company Limited C091311082 1AF04A3
MARQUARDT	MS5 (locking system)	Suntech Vietnam Technology Company Limited C014114052 0AF04A2



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	Suntech Vietnam Technology Company Limited C002118011 9AF04A2
MARQUARDT	MK2 (locking system)	Suntech Vietnam Technology Company Limited C002218011 9AF04A2



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	Suntech Vietnam Technology Company Limited C013103022 1AF04A3
Schrader	AG5SP4 (tyre pressure sensor)	Suntech Vietnam Technology Company Limited C000205011 9AF042A



Manufacturer	Model designation	Radio equipment approval number
Schrader	AG3PF4 (tyre pressure sensor)	Suntech Vietnam Technology Company Limited C012022051 9AF04A2
Schrader	GG4T (tyre pressure sensor)	Suntech Vietnam Technology Company Limited C017019101 7AF04A2



Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure sensor)	Suntech Vietnam Technology Company Limited C007807051 8AF04A2
Veoneer	77GHz MMRV1 (radar sensor)	SUNTECH VN C00082015
Veoneer	77V12BSM (radar sensor)	SUNTECH VN C00082015
Veoneer	77V12CRN (radar sensor)	SUNTECH VN C00082015



Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V125CRN (radar sensor)	SUNTECH VN C00082015
WITTE-Velbert	SDHTAG3NFC (locking system)	Mercedes-Benz Vietnam Company Limited A084713082 0AF04A3

### Information about the specific absorption rate (SAR)

#### Information about the specific absorption rate

For France only:

The values have been determined and tested in accordance with the Décret n° 2019-1186 guideline regarding the indication of the specific absorption rate (SAR) of wireless vehicle components.

Further information and updates are available at the following web address:

[https://moba.i.mercedes-benz.com/baix/cars/SAR/fr\\_FR/index.html](https://moba.i.mercedes-benz.com/baix/cars/SAR/fr_FR/index.html)



### Information about the specific absorption rate

Vehicle components	SAR value in W/kg	Applicable limit value
Compensator ECE DE003 & ECE DE004	< 0.2 W/kg	2 W/kg
DAI RSE	1.8 W/kg	2 W/kg



Vehicle components	SAR value in W/kg	Applicable limit value
HERMES communication module	< 0.4 W/kg	2 W/kg
RAMSES communication module	0.036 W/kg	2 W/kg
NRCS2P	0.003 W/kg	2 W/kg
NTG6	0.199 W/kg	4 W/kg
NTG7	0.08 W/kg	2 W/kg
NTG7RSU	0.07 W/kg	2 W/kg
Tablet PC SM-T230NZ	0.7 W/kg	4 W/kg
Radio data transmission telephone system	0.24 W/kg	2 W/kg

### Importer information for regulatory radio components

#### **For Moldova only: Importer**

S.C. GRAND PREMIUM S.R.L. Moldova  
mun. Chisinau, str. Hîncesti sos., 2/2

#### **For Turkey only: Importer**

Mercedes Benz Otomotiv Ticaret ve Hizmetler  
A.Ş. Genel Merkez  
Akçaburgaz Mah. Süleyman Şah Cad. No: 6/1  
34522 Esenyurt/İstanbul

#### **For Ukraine only: Importer**

PJSC "AUTOCAPITAL"  
Velyka Vasylykivska str. 15/2  
01004 Kyiv  
Ukraine

#### **For the United Kingdom only: Importer**

Mercedes-Benz Cars UK Limited

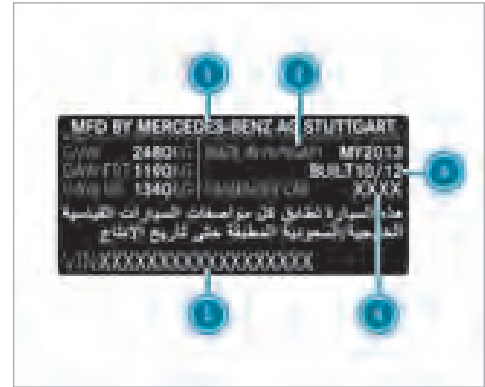
Delaware Drive, Tongwell  
Milton Keynes, MK15 8BA  
England

**Importer of Mercedes-Benz spare parts**

Mercedes-Benz Parts Logistics  
Delaware Drive, Tongwell  
Milton Keynes, MK15 8BA  
England

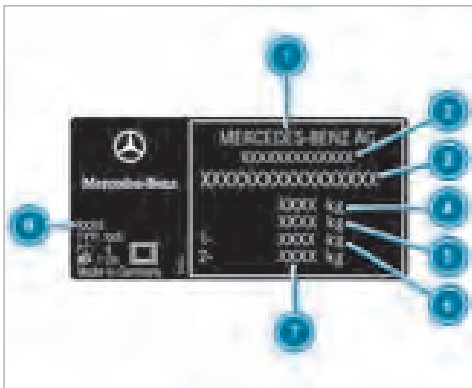
**Vehicle identification plate, VIN and engine number overview**

**Vehicle identification plate**



Vehicle identification plate (example: Kuwait)

- ① Vehicle manufacturer
- ② Place of manufacture
- ③ Manufacturing date
- ④ Vehicle model
- ⑤ VIN

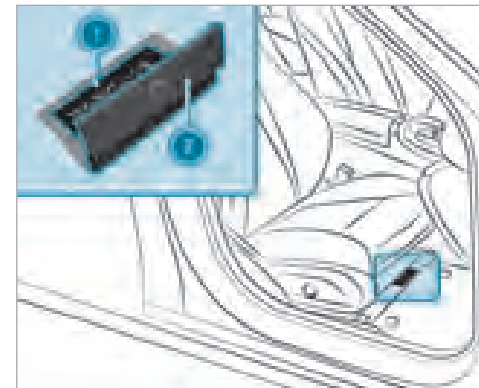


Vehicle identification plate (example: all other countries)

- ① Vehicle manufacturer
- ② EU general operating permit number (only for certain countries)
- ③ VIN (vehicle identification number)
- ④ Maximum permissible gross vehicle weight (kg)

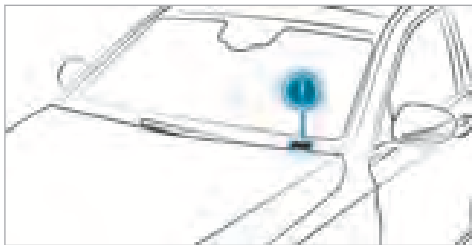
- ⑤ Maximum permissible gross weight of vehicle combination (kg) (only for specific countries)
- ⑥ Maximum permissible front axle load (kg)
- ⑦ Maximum permissible rear axle load (kg)
- ⑧ Paint code
- i The data shown in the illustration is example data.

### VIN below the front right-hand seat



- ① Imprinted VIN (vehicle identification number)
- ② Floor covering

## VIN at the lower edge of the windscreen



① VIN (vehicle identification number) as label

The VIN as a label at the lower edge of the windscreen is only available in some countries.

## Engine number

The engine number is stamped into the crankcase. Further information can be obtained at a qualified specialist workshop.

## Operating fluids

### Notes on operating fluids

**⚠ WARNING** Risk of injury due to harmful operating fluids

Operating fluids can be toxic.

- ▶ When using, storing and disposing of operating fluids, observe the imprints on the respective original containers.
- ▶ Always keep operating fluids in the sealed original container.
- ▶ Always keep children away from operating fluids.

**🌿 ENVIRONMENTAL NOTE** Pollution of the environment due to irresponsible disposal of operating fluids

Incorrect disposal of operating fluids can cause considerable damage to the environment.

- ▶ Dispose of operating fluids in an environmentally responsible manner.

Operating fluids include the following:

- fuels
- DeNOx agent AdBlue® for exhaust gas after-treatment
- lubricants
- Coolant
- Brake fluid
- windscreen washer fluid
- climate control system refrigerant

Only use products approved by Mercedes-Benz. Damage caused by the use of products that have not been approved is not covered by the Mercedes-Benz warranty or goodwill gestures.

The operating fluids approved by Mercedes-Benz can be identified by the following inscriptions on the container:

- MB-Freigabe (e.g. MB-Freigabe 229.51)
- MB-Approval (e.g. MB-Approval 229.51)

Further information on approved operating fluids:

- in the Mercedes-Benz Specifications for Operating Fluids by entering the designation

- At <https://operatingfluids.mercedes-benz.com>
- At a qualified specialist workshop

**⚠ WARNING** Risk of fire or explosion from fuel

Fuels are highly flammable.

- ▶ Fire, naked flames, smoking and creating sparks must be avoided.
- ▶ Before and during refuelling, switch off the vehicle and, if fitted, the stationary heater.

**⚠ WARNING** Risk of injury from fuels

Fuels are poisonous and hazardous to your health.

- ▶ Do not swallow fuel or let it come into contact with skin, eyes or clothing.
- ▶ Do not inhale fuel vapour.
- ▶ Keep children away from fuel.
- ▶ Keep doors and windows closed during the refuelling process.

If you or other people come into contact with fuel, observe the following:

- ▶ Immediately rinse fuel off your skin with soap and water.
- ▶ If fuel comes into contact with your eyes, immediately rinse them thoroughly with clean water. Seek medical attention immediately.
- ▶ If you swallow fuel, seek medical attention immediately. Do not induce vomiting.
- ▶ Change immediately out of clothing that has come into contact with fuel.

Flexible-fuel vehicles can be refuelled with the following fuel types:

- unleaded petrol
- E85 fuel
- a mixture of E85 fuel and unleaded petrol

Flexible-fuel vehicles can be identified by the **Ethanol up to E85** sticker on the inside of the fuel filler flap.

Depending on the country, the fuels you can use in your vehicle may differ from the information in the Owner's Manual. The fuels that have been approved for your vehicle can be found on the instruction label on the inside of the fuel filler flap.

## Fuel

### Information on fuel quality for vehicles with petrol engines

Observe the notes on operating fluids (→ page 632).

**! NOTE** Damage caused by the wrong fuel

Even small amounts of the wrong fuel could result in damage to the fuel system, the engine and the emission control system.

- ▶ Only refuel using unleaded, sulphur-free spark-ignition engine fuel that conforms to European EN 228, or an equivalent specification.

Fuel of this specification may contain up to 10% ethanol by volume. Your vehicle is suitable for use with E10 fuel.

▶ See the information label in fuel filler flap for other compatible fuels .

Never refuel with one of the following fuels:

- Diesel
- Regular petrol with an octane number lower than 91 RON
- Petrol with more than 3% methanol by volume, e.g. M15, M30
- Petrol with additives containing metal

If you have accidentally refuelled with the wrong fuel:

- ▶ Do not switch on the vehicle.
- ▶ Consult a qualified specialist workshop.

The following compatibility indications for fuel apply to your vehicle:



- ① For petrol with maximum 5% ethanol by volume
- ② For petrol with maximum 10% ethanol by volume

The compatibility indications for fuel on the vehicle according to the European standard EN 16942 can be found on the information label in the fuel filler flap or on the fuel dispenser or pump nozzle suitable for your vehicle throughout Europe.

If the available fuel is not sufficiently low in sulphur, it may produce unpleasant odours.

The recommended octane number for your vehicle can be found on the information label in the fuel filler flap.

**i** Vehicles with petrol engine M256: when using 95 RON, there may be slight limitations in performance that have no further consequences.

**E 350:** Only refuel using super unleaded petrol with at least 98 RON if you wish to achieve maximum engine output. Alternatively, you can also refuel using premium-grade unleaded petrol with an octane number of at least 95 RON.

As a temporary measure, if the recommended fuel is not available, you may also refuel with regular unleaded petrol with at least 91 RON.

This may reduce engine output and increase fuel consumption.

Never refuel using petrol with a lower RON.

Further information on fuel can be obtained at a filling station or a qualified specialist workshop.

### ■ Information on additives in petrol (vehicles with petrol engine)

Observe the notes on operating fluids (→ page 632).

**!** **NOTE** Damage from use of unsuitable additives

Even small amounts of the wrong additive may lead to malfunctions occurring.

- ▶ Only add cleaning additives recommended by Mercedes-Benz to the fuel.

Mercedes-Benz recommends that you use brand-name fuels with additives.

In some countries, the fuel available may not have sufficient additives. Deposits could build up in the fuel injection system as a result. In this case, in consultation with a qualified specialist workshop (e.g. a Mercedes-Benz service centre), mix the fuel with the cleaning additive recommended by Mercedes-Benz. Observe the notes and mixing ratios indicated on the tank.

### Information on fuel quality for vehicles with a diesel engine

#### General notes

Observe the notes on operating fluids  
(→ page 632).

**!** **WARNING** Risk of fire from fuel mixture

If you mix diesel fuel with petrol, the flash point of the fuel mixture is lower than that of pure diesel fuel.

- ▶ Never refuel using petrol in diesel engines.
- ▶ Never mix petrol with diesel fuel.

**!** **NOTE** Damage caused by the wrong fuel

Even small amounts of the wrong fuel could result in damage to the fuel system, the engine and the emission control system.

#### Vehicles with a diesel particulate filter:

- ▶ Only refuel using sulphur-free diesel fuel that conforms to European standard EN 590, or an equivalent specification. In countries without sulphur-free diesel fuel, refuel using only low-sulphur diesel fuel with a sulphur content less than 50 ppm.

#### Vehicle without diesel particulate filter:

- ▶ Only refuel using diesel fuel with a sulphur content less than 500 ppm.

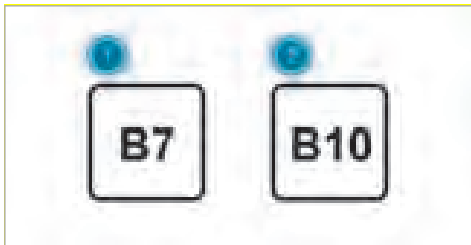
Never refuel with one of the following fuels:

- Petrol
- Marine diesel
- Heating oil
- Pure fatty acid methyl ester or vegetable oil
- Paraffin or kerosene

If you have accidentally refuelled with the wrong fuel:

- ▶ **Do not switch on the vehicle.**
- ▶ Consult a qualified specialist workshop.

The following compatibility indications for fuel apply to your vehicle:



- ① For diesel fuel with a maximum of 7% fatty acid methyl ester by volume (bio-diesel)
- ② For diesel fuel with a maximum of 10% fatty acid methyl ester by volume (bio-diesel)

According to European standard EN 16942 you can find the compatibility indications at the following locations:

- On the vehicle on the information label on the fuel filler flap (→ page 203)
- On the fuel dispenser or pump nozzle suitable for your vehicle throughout Europe

### Information on low outside temperatures

Refuel your vehicle with as much winter diesel fuel as possible at the beginning of winter.

Before changing over to winter diesel fuel, the fuel tank should be empty, if possible. When first refuelling with winter diesel fuel, keep the fuel level low, e.g. to reserve level. The fuel tank can be filled as usual when next refuelling.

Further information on fuel can be obtained at a filling station or a qualified specialist workshop.

### Tank content and fuel reserve

The total capacity of the fuel tank may vary, depending on the vehicle equipment.

### Total fuel tank capacity

Model	
All models	50.0 litres
	or
	66.0 litres

### Fuel tank reserve

Model	
All models	7.0 litres

### AdBlue® (vehicles with a diesel engine only)

#### Notes on AdBlue®

Observe the notes on operating fluids (→ page 632).

AdBlue® is a water-soluble fluid for the NOx exhaust gas aftertreatment of diesel engines.

It may be improper or punishable in some countries to operate a vehicle that uses no AdBlue® or one that does not comply with the specifications of this Owner's Manual.

**!** **NOTE** Malfunctions due to the dilution of AdBlue® or the use of additive-enhanced AdBlue®

The function of the NOx exhaust gas aftertreatment can be impaired by the use of unsuitable denoxification agents.



- ▶ Only use AdBlue<sup>®</sup> in accordance with ISO 22241.
- ▶ Do not dilute AdBlue<sup>®</sup> with water.
- ▶ Do not use additive-enhanced AdBlue<sup>®</sup>.

**!** **NOTE** Damage and malfunctions due to impurities in AdBlue<sup>®</sup>

Consequences of impurities in AdBlue<sup>®</sup>:

- increased emission values
  - damage to the catalytic converter
  - NOx exhaust gas aftertreatment malfunctions
- ▶ Avoid impurities in AdBlue<sup>®</sup>.

AdBlue<sup>®</sup> residues crystallise after a period of time, and contaminate the surfaces with which they come into contact. Clean the dirty surfaces with water as soon as possible.

When you open the AdBlue<sup>®</sup> tank, small amounts of ammonia vapour may escape. Do not inhale

any ammonia vapours that may be released. Only fill the AdBlue<sup>®</sup> tank in well-ventilated areas.

### ■ AdBlue<sup>®</sup> filling capacity and consumption

#### Total capacity of AdBlue<sup>®</sup> tank

Model	Total capacity
E 220 d	24.0 litres

#### AdBlue<sup>®</sup> consumption

The average AdBlue<sup>®</sup> consumption is between 1% and 5% of fuel consumption. Like fuel consumption, AdBlue<sup>®</sup> consumption is highly dependent upon driving style and operating conditions. For this reason, your vehicle's actual consumption figures in day-to-day operating conditions may differ from the average consumption figures calculated. The frequency at which you will have to top up AdBlue<sup>®</sup> will also vary. Have the AdBlue<sup>®</sup> supply checked at a qualified specialist workshop before making journeys outside Europe. Before a longer stay outside Europe, consult a qualified specialist workshop.

#### AdBlue<sup>®</sup> fill level and range

The AdBlue<sup>®</sup> fill level and range can be displayed via the on-board computer. The AdBlue<sup>®</sup> range shown depends strongly on the driving style and operating conditions. The actual range may therefore deviate from the range currently displayed on the on-board computer. The information supplied in the Owner's Manual regarding the reserve quantity at the first display warning and the minimum top-up quantity when the fuel tank is empty is also to be understood as guide values.

#### Engine oil

##### ■ Notes on engine oil

Observe the notes on operating fluids (→ page 632).



**!** **NOTE** Engine damage caused by an incorrect oil filter, incorrect oil or additives

- ▶ Do not use engine oils or oil filters other than those which meet the specifications necessary for the prescribed service intervals.
- ▶ Do not alter the engine oil or oil filter in order to achieve longer change intervals than prescribed.
- ▶ Do not use additives.
- ▶ Have the engine oil changed after the prescribed intervals.

Mercedes-Benz recommends having the oil changed at a qualified specialist workshop.

Only use engine oils approved for your vehicle by Mercedes-Benz.

### ■ Engine oil quality and filling quantity

#### Engine oil specification (petrol engines)

Petrol engines	MB-Freigabe or MB-Approval
All models	229.71
	229.72*

#### Engine oil specification (diesel engines)

Diesel engines	MB-Freigabe or MB-Approval
E 220 d	229.52, 229.61, 229.71 229.72*

\* recommended for lowest possible fuel consumption (lowest SAE viscosity class in each

case; observe possible restrictions of the approved SAE viscosity classes)

**E 200; E 300:** use only engine oils of viscosity class SAE 0W-20.

- i** If the engine oils listed in the table are not available, you may add a maximum of 1.0 litre of the following engine oils once only.
- Vehicles with petrol engines:** MB-Freigabe or MB-Approval 229.31 or ACEA C3
- Vehicles with diesel engines:** ACEA C3

#### Engine oil filling quantity

Model	Capacity
All models	6.0 litres

The specified filling quantity refers to an oil change with the oil filter.

#### Notes on brake fluid

Observe the notes on operating fluids (→ page 632).

**⚠ WARNING** Risk of an accident due to vapour pockets forming in the brake system

The brake fluid constantly absorbs moisture from the air. This lowers the boiling point of the brake fluid. If the boiling point is too low, vapour pockets may form in the brake system when the brakes are applied hard.

This impairs the braking effect.

- ▶ Have the brake fluid renewed at the specified intervals.

Have the brake fluid regularly replaced at a qualified specialist workshop.

Only use a brake fluid approved by Mercedes-Benz according to MB-Freigabe or MB-Approval 331.0.

## Coolant

### ■ Notes on coolant

Observe the notes on operating fluids (→ page 632).

**⚠ WARNING** Risk of fire- and injury from antifreeze

If antifreeze comes into contact with hot component parts in the engine compartment, it may ignite.

- ▶ Allow the engine to cool down before you top up the antifreeze.
- ▶ Make sure that no antifreeze spills out next to the filler opening.
- ▶ Thoroughly clean the antifreeze from component parts before starting the vehicle.

**! NOTE** Damage caused by incorrect coolant

- ▶ Only use coolant that has been premixed with the required antifreeze protection.

Information on coolant is available at the following locations:

- In the Mercedes-Benz Specification for Operating Fluids 320.1

- At <https://operatingfluids.mercedes-benz.com>

- At a qualified specialist workshop

**! NOTE** Overheating at high outside temperatures

If an inappropriate coolant is used, the cooling system is not sufficiently protected against overheating and corrosion at high outside temperatures.

- ▶ Only use coolant approved for Mercedes-Benz.
- ▶ Observe the instructions in the Mercedes-Benz Specifications for Operating Fluids 320.1.

Have the coolant regularly replaced at a qualified specialist workshop.

Proportion of antifreeze concentrate in the cooling system:

- A minimum of 50% (antifreeze protection down to about -37°C)

- A maximum of 55% (antifreeze protection down to -45°C)

### Notes on windscreen washer fluid

Observe the notes on operating fluids (→ page 632).

**⚠ WARNING** - Risk of fire and injury due to windscreen washer concentrate

Windscreen washer concentrate is highly flammable. It could ignite if it comes into contact with hot engine component parts or the exhaust system.

- ▶ Make sure that no windscreen washer concentrate spills out next to the filler opening.

**⚠ NOTE** Damage to the exterior lighting due to unsuitable windscreen washer fluid

Unsuitable windscreen washer fluids may damage the plastic surface of the exterior lighting.

- ▶ Only use windscreen washer fluids which are also suitable for use on plastic surfaces, e.g. MB SummerFit or MB WinterFit.

**⚠ NOTE** Blocked spray nozzles caused by mixing windscreen washer fluids

- ▶ Do not mix MB SummerFit and MB WinterFit with other windscreen washer fluids.

Do not use distilled or de-ionised water. Otherwise, the fill level sensor may be triggered erroneously.

Recommended windscreen washer fluid:

- above freezing point: e.g. MB SummerFit
- below freezing point: e.g. MB WinterFit

For the correct mixing ratio, refer to the information on the antifreeze container.

Mix washer fluid with windscreen washer fluid all year round.

## Vehicle data

### Vehicle dimensions

The heights specified may vary as a result of the following factors:

- Tyres
- Load
- Condition of the suspension
- Optional equipment

### Vehicle dimensions

#### All models

Vehicle length	4949 mm
Vehicle width including exterior mirrors	2065 mm
Vehicle width excluding exterior mirrors	1904 mm
Wheelbase	2961 mm

## Vehicle height

Model	Vehicle height
E 300	1469 mm
All other models	1468 mm

## Weights and loads

Please observe the following notes for the specified vehicle data:

- Items of optional equipment increase the unladen weight and reduce the payload.
- Vehicle-specific weight information can be found on the vehicle identification plate (→ page 630).

## Roof load

Model	Maximum roof load
All models	100 kg

## Maximum design speeds

The maximum design speed can differ from the stated figures in practice. It depends on the operating conditions, the optional equipment and the size of the tyres.

Missing values were not yet available at the time of going to press.

## Maximum design speed

Model	
All models	

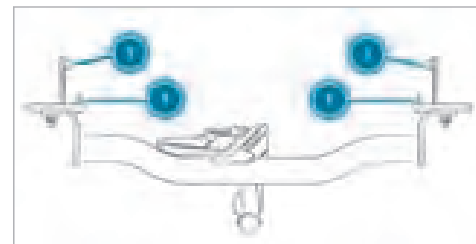
## Trailer hitch

### General notes on the trailer hitch

Modifications to the cooling system may be necessary, depending on the vehicle model. The retrofitting of a trailer hitch is only permissible if a towing capacity is specified in your vehicle documents.

Further information can be obtained at a qualified specialist workshop.

## Mounting dimensions




- ① Fastening points
- ② Overhang dimension
- ③ Rear axle centre line

The overhang dimension and fastening points are valid for a trailer hitch installed at the factory.

### Overhang dimension length

Model	Overhang dimension
All models	1245 mm

### Towing capacity

-  The trailer drawbar noseweight is not included in the towing capacity. The values for the **trailer load, braked trailer** apply with a minimum start-off climbing ability of 12 %.

Missing values were not yet available at the time of going to press.


### Towing capacity, braked

Model	
E 300	
All other models	2100 kg



### Towing capacity, unbraked


Model	
E 300	
All other models	750 kg

### Maximum trailer drawbar noseweight -and load capacity


-  **NOTE** Damage caused by the trailer coming loose

If the tongue weight used is too low, the trailer may come loose.

-  The tongue weight must not be below 50 kg.
-  Use a tongue weight that is as close as possible to the maximum permissible tongue weight.

-  **NOTE** Damage caused by the bicycle rack coming loose

When using a bicycle rack, both the maximal tongue weight and the maximal load capacity should be observed.

-  Do not exceed the permissible load capacity.

Observe the additional notes on load capacity (→ page 300).

Missing values were not yet available at the time of going to press.

### Trailer drawbar noseweight

Model	Maximum trailer drawbar noseweight
E 300	
All other models	84 kg

**Load capacity**

All models	Maximum load capacity
When attaching the bicycle rack to the ball head	75 kg
When attaching the bicycle carrier to the ball head and additionally to the guide pins	100 kg

**Axle load when towing trailer**

Model	Axle load
E 200	1462 kg
E 220 d	1500 kg
E 300	

**Permissible rear axle load (trailer operation)**

Missing values were not yet available at the time of going to press.

## Display messages

### Introduction



#### Information about display messages



Display messages appear on the driver's display.


Display messages with graphical symbols are simplified in the Owner's Manual and may differ from the symbols on the driver's display. The driver's display shows high-priority display messages in red. Certain display messages are accompanied by a warning tone.

Please act in accordance with the display messages and follow the additional notes in the Owner's Manual.

For some display messages, symbols will also be shown:

-  Further information
-  Hide display message

With the left-hand Touch Control, you can select the respective symbol by swiping to the left or right. Pressing  displays further information on the central display. Press the  symbol to hide the display message.

Display messages to be acknowledged can be hidden by pressing the back button  or with the left-hand Touch Control. The display messages will then be stored in the message memory.

Rectify the cause of a display message as quickly as possible.


High-priority display messages cannot be hidden. The driver's display will show these display messages continuously until the cause of the display message has been rectified.



#### Calling up saved display messages

Driver's display:

 Service






The **Message memory: XX** message appears on the driver's display.






 Scroll through the display messages by swiping upwards or downwards on the left-hand Touch Control.







 **To exit the display:** press the  back button.




## Occupant safety


Display messages	Possible causes/consequences and ► Solutions
 <p>Restraint system malfunction Consult workshop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <div style="border: 1px solid gray; padding: 5px;"> <p>⚠ <b>WARNING</b> Risk of injury due to malfunctions in the restraint system</p> <p>Components in the restraint system may be activated unintentionally or not deploy as intended in an accident.</p> <p>► Have the restraint system checked and repaired immediately at a qualified specialist workshop.</p> </div> <p>Recognition of a restraint system fault:</p> <ul style="list-style-type: none"> <li>• the  restraint system warning lamp does not light up when the vehicle is switched on</li> <li>• the  restraint system warning lamp lights up continuously or repeatedly during a journey</li> </ul> <p>► Consult a qualified specialist workshop immediately.</p>
 <p>Front left malfunction Consult workshop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <div style="border: 1px solid gray; padding: 5px;"> <p>⚠ <b>WARNING</b> Risk of injury due to malfunctions in the restraint system</p> <p>Components in the restraint system may be activated unintentionally or not deploy as intended in an accident.</p> <p>► Have the restraint system checked and repaired immediately at a qualified specialist workshop.</p> </div> <p>Recognition of a restraint system fault:</p> <ul style="list-style-type: none"> <li>• the  restraint system warning lamp does not light up when the vehicle is switched on</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>the  restraint system warning lamp lights up continuously or repeatedly during a journey</li> </ul> <p>► Consult a qualified specialist workshop immediately.</p>
 <p>Front right malfunction Consult workshop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <p><b>⚠ WARNING</b> Risk of injury due to malfunctions in the restraint system</p> <p>Components in the restraint system may be activated unintentionally or not deploy as intended in an accident.</p> <p>► Have the restraint system checked and repaired immediately at a qualified specialist workshop.</p> <p>Recognition of a restraint system fault:</p> <ul style="list-style-type: none"> <li>the  restraint system warning lamp does not light up when the vehicle is switched on</li> <li>the  restraint system warning lamp lights up continuously or repeatedly during a journey</li> </ul> <p>► Consult a qualified specialist workshop immediately.</p>
 <p>Second row of seats, left Malfunction Consult workshop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <p><b>⚠ WARNING</b> Risk of injury due to malfunctions in the restraint system</p> <p>Components in the restraint system may be activated unintentionally or not deploy as intended in an accident.</p> <p>► Have the restraint system checked and repaired immediately at a qualified specialist workshop.</p>




Display messages	Possible causes/consequences and ► Solutions
	<p>Recognition of a restraint system fault:</p> <ul style="list-style-type: none"> <li>• the  restraint system warning lamp does not light up when the vehicle is switched on</li> <li>• the  restraint system warning lamp lights up continuously or repeatedly during a journey</li> </ul> <p>► Consult a qualified specialist workshop immediately.</p>
 <p>Second row of seats, right Malfunction Consult work- shop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <p><b>⚠ WARNING</b> Risk of injury due to malfunctions in the restraint system</p> <p>Components in the restraint system may be activated unintentionally or not deploy as intended in an accident.</p> <p>► Have the restraint system checked and repaired immediately at a qualified specialist workshop.</p> <p>Recognition of a restraint system fault:</p> <ul style="list-style-type: none"> <li>• the  restraint system warning lamp does not light up when the vehicle is switched on</li> <li>• the  restraint system warning lamp lights up continuously or repeatedly during a journey</li> </ul> <p>► Consult a qualified specialist workshop immediately.</p>
 <p>Left window airbag mal- function Consult workshop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <p><b>⚠ WARNING</b> Risk of injury or fatal injury due to a malfunction in the windowbag</p> <p>The windowbag might be triggered unintentionally or might not be triggered at all in the event of an accident.</p>



Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Have the windowbag checked and repaired immediately at a qualified specialist workshop.</li> <li>► Consult a qualified specialist workshop immediately.</li> </ul>
 <p>Right window airbag malfunction Consult workshop</p>	<p>* The restraint system is malfunctioning (→ page 40).</p> <div style="background-color: #f0f0f0; padding: 5px;"> <p>⚠ <b>WARNING</b> Risk of injury or fatal injury due to a malfunction in the windowbag</p> <p style="background-color: yellow;">The windowbag might be triggered unintentionally or might not be triggered at all in the event of an accident.</p> <ul style="list-style-type: none"> <li>► Have the windowbag checked and repaired immediately at a qualified specialist workshop.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop immediately.</li> </ul>
<p>Front passenger airbag disabled See Owner's Manual</p>	<p>* The front passenger airbag has been disabled even though an adult or a person of adult build is on the front passenger seat. If additional forces are applied to the seat, the weight the system detects may be too low.</p> <div style="background-color: #f0f0f0; padding: 5px;"> <p>⚠ <b>WARNING</b> - Risk of injury or even fatal injury when the front passenger airbag is disabled</p> <p>If the front passenger airbag is disabled, It will not be deployed in the event of an accident and cannot perform its intended protective function.</p> <p>A person in the front passenger seat could then, for example, come into contact with the vehicle interior, especially if the person is sitting too close to the dashboard.</p> <ul style="list-style-type: none"> <li>► Be aware of the status of the front passenger airbag both before and during the journey.</li> </ul> </div>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions.</li> <li>► Make sure that no objects are trapped under the front passenger seat.</li> <li>► Check the status of the automatic front passenger airbag shutoff (→ page 49).</li> <li>► If necessary, consult a qualified specialist workshop immediately.</li> </ul>
<p>Front passenger airbag enabled See Owner's Manual</p>	<p>* The front passenger airbag will be enabled while the vehicle is in motion in the following situations:</p> <ul style="list-style-type: none"> <li>• even when a child, a small adult or an object weighing less than the system weight threshold is located on the front passenger seat</li> <li>• even when the front passenger seat is not occupied</li> </ul> <p>The system may detect objects or forces that are adding to the weight applied to the seat.</p> <div style="background-color: #e0e0e0; padding: 5px; margin: 10px 0;"> <p><b>⚠ WARNING</b> Risk of injury or death when using a child restraint system while the front passenger airbag is enabled</p> </div> <p>If you secure a child in a child restraint system on the front passenger seat and the front passenger airbag is enabled, the front passenger airbag can deploy in the event of an accident.</p> <p>The child could be struck by the airbag.</p> <ul style="list-style-type: none"> <li>► Ensure, both before and during the journey, that the status of the front passenger airbag is correct.</li> </ul> <p>NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur.</p>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"><li>► Stop the vehicle immediately in accordance with the traffic conditions.</li><li>► Make sure that no objects are trapped under the front passenger seat.</li><li>► Check the status of the automatic front passenger airbag shutoff (→ page 49).</li><li>► If necessary, consult a qualified specialist workshop immediately.</li></ul>
Occupant presence reminder inoperative	<ul style="list-style-type: none"><li>* The occupant presence reminder is malfunctioning</li><li>► Consult a qualified specialist workshop.</li></ul>
 <p>Do not leave persons or animals in the vehicle</p>	<ul style="list-style-type: none"><li>* The occupant presence reminder suspects that there are persons or animals in the rear of the vehicle.</li><li>► Do not leave any persons or animals behind when leaving the vehicle.</li></ul>

## Key

Display messages	Possible causes/consequences and ► Solutions
 <p>Replace key</p>	<ul style="list-style-type: none"> <li>* Have the key replaced.           <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
 <p>Change key batteries</p>	<ul style="list-style-type: none"> <li>* The key battery is discharged.           <ul style="list-style-type: none"> <li>► Replace the battery (→ page 78).</li> </ul> </li> </ul>
 <p>Key not detected (white display message)</p>	<ul style="list-style-type: none"> <li>* The key is currently undetected.           <ul style="list-style-type: none"> <li>► Change the location of the key in the vehicle.</li> <li>► Try to start the vehicle.</li> <li>► If the key is still not detected, place it in the slot for starting with the key (→ page 185).</li> <li>► Start the vehicle.</li> </ul> </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Key not detected (red display message)</p>	<p>* The key can no longer be detected during a journey and may no longer be in the vehicle.</p> <p>If the key is no longer in the vehicle and you switch off the vehicle:</p> <ul style="list-style-type: none"><li>• You can no longer start the vehicle.</li><li>• You cannot centrally lock the vehicle.</li></ul> <p>► Ensure that the key is in the vehicle.</p> <p>If the key is in the vehicle and is still not detected:</p> <ul style="list-style-type: none"><li>► Stop the vehicle immediately in accordance with the traffic conditions.</li><li>► Place the key in the slot for starting the engine with the key (→ page 185).</li></ul> <p>The key battery is weak or discharged.</p> <ul style="list-style-type: none"><li>► Check the battery using the indicator lamp (→ page 76).</li><li>► Replace the key battery, if necessary (→ page 78).</li></ul>
 <p>Key being taught in Please wait</p>	<p>* The vehicle is processing in order to teach in the new key.</p> <ul style="list-style-type: none"><li>► Wait until processing is complete.</li></ul>



Display messages	Possible causes/consequences and ► Solutions
<p>Place the key in the marked space See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Key detection is malfunctioning.               <ul style="list-style-type: none"> <li>► Change the location of the key in the vehicle.</li> <li>► Place the key in the slot for starting the engine with the key (→ page 185).</li> </ul> </li> </ul>
<p>Please place key in the cup holder or Digital Vehicle Key in inductive charging bracket See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The key was not detected.               <ul style="list-style-type: none"> <li>► Place the key in the stowage compartment (→ page 185).</li> </ul> <p>If the key is still not detected:</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> <li>* The Digital Vehicle Key has not been detected.               <ul style="list-style-type: none"> <li>► Place the Digital Vehicle Key in the stowage space (→ page 183).</li> </ul> <p>If the Digital Vehicle Key is still not detected:</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<div> </div> <p>Key not detected</p>	<ul style="list-style-type: none"> <li>* The key or the Digital Vehicle Key is currently undetected.               <ul style="list-style-type: none"> <li>► Change the location of the key or the Digital Vehicle Key in the vehicle.</li> <li>► Try to start the vehicle.</li> <li>► If the key is still not detected, place the key in the stowage compartment (→ page 185).</li> <li>► If the Digital Vehicle Key is still not detected, place the Digital Vehicle Key in the stowage space (→ page 183).</li> <li>► Start the vehicle.</li> </ul> </li> </ul>

## Display messages



Key not detected Place Digital Vehicle Key in inductive charging bracket

## Possible causes/consequences and ► Solutions

\* The key or the Digital Vehicle Key are no longer detected during a journey and may no longer be in the vehicle.

If the key or the Digital Vehicle Key is no longer in the vehicle and you switch off the vehicle:

- You can no longer start the vehicle.
- You cannot centrally lock the vehicle.

► Ensure that the key or the Digital Vehicle Key is in the vehicle.

If the key or the Digital Vehicle Key is in the vehicle and is still not detected:

- Stop the vehicle immediately in accordance with the traffic conditions.
- Place the key in the stowage compartment (→ page 185).
- Place the Digital Vehicle Key in the stowage space (→ page 183).

The key battery is weak or discharged.




- Check the battery using the indicator lamp (→ page 76).
- Replace the key battery, if necessary (→ page 78).



The charge status of the rechargeable battery of the end device with the Digital Vehicle Key is too low.

- Immediately charge the rechargeable battery of the Digital Vehicle Key end device.


Otherwise, it may not be possible to restart the vehicle after it has been switched off.





If the key or the Digital Vehicle Key is still not detected:

Display messages	Possible causes/consequences and ► Solutions
 <p>Replace key See Owner's Manual</p>	<ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> <li>* If the Digital Vehicle Key is not renewed, the vehicle cannot be unlocked/locked or started.</li> <li>► The system automatically renews the Digital Vehicle Key. When the renewal is complete, the message disappears and the Digital Vehicle Key is available again.</li> </ul>
 <p>Do not forget key</p>	<ul style="list-style-type: none"> <li>* A warning tone will also sound. This message reminds you to take your key with you when you leave the vehicle. This also applies to the Digital Vehicle Key.</li> </ul>
 <p>Digital Vehicle Key Charge device</p>	<ul style="list-style-type: none"> <li>* The charge status of the rechargeable battery of the end device with the Digital Vehicle Key is too low.</li> <li>► Immediately charge the rechargeable battery of the Digital Vehicle Key end device.</li> </ul>



Display messages	Possible causes/consequences and ► Solutions
 <p>Key being taught in Please wait</p>	<ul style="list-style-type: none"> <li>* The vehicle is processing in order to teach in the new Digital Vehicle Key.               <ul style="list-style-type: none"> <li>► Wait until processing is complete.</li> </ul> </li> </ul>
 <p>Key does not belong to vehicle</p>	<ul style="list-style-type: none"> <li>* The vehicle cannot be unlocked/locked or started.               <ul style="list-style-type: none"> <li>► Use the Digital Vehicle Key belonging to the vehicle.</li> </ul> </li> </ul>





## Lights

Display messages	Possible causes/consequences and ► Solutions
 <p>Malfunction See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The exterior lighting is malfunctioning.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> <li>* <b>Vehicles with a trailer hitch:</b> a fuse may have blown.               <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions.</li> <li>► Check the fuses and replace them if necessary (→ page 505).</li> </ul> </li> </ul>





Display messages	Possible causes/consequences and ► Solutions
 <p>Automatic driving lights inoperative</p>	<ul style="list-style-type: none"> <li>* The light sensor for automatic driving lights is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Switch on headlamps</p>	<ul style="list-style-type: none"> <li>* You are driving without low-beam headlamps.</li> <li>► Turn the light switch to the  or <b>AUTO</b> position.</li> </ul>
 <p>Switch off lights</p>	<ul style="list-style-type: none"> <li>* You are leaving the vehicle and the lights are still switched on.</li> <li>► Turn the light switch to the <b>AUTO</b> position.</li> </ul>
<p>DIGITAL LIGHT Functions limited</p>	<ul style="list-style-type: none"> <li>* The DIGITAL LIGHT system is malfunctioning. The lighting system will continue to work even without the functions of the DIGITAL LIGHT system.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
<p>Check low beam setting (left/right-side traffic)</p>	<ul style="list-style-type: none"> <li>* The type of traffic has been selected manually.</li> <li>► Check the setting and change it manually if necessary (→ page 158).</li> </ul>





Display messages	Possible causes/consequences and ► Solutions
<p>Low beam setting (left/right-side traffic) Manual adjustment only</p>	<ul style="list-style-type: none"> <li>* The automatic headlamp conversion for left-hand/right-hand traffic has malfunctioned.               <ul style="list-style-type: none"> <li>► Change the headlamps over manually (→ page 158).</li> </ul> </li> </ul>
<p>Adaptive Highbeam Assist currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Adaptive Highbeam Assist is temporarily unavailable. The system limits have been reached (→ page 155). Once the cause of the problem is no longer present, the system will be available again. The <b>Adaptive Highbeam Assist available again</b> display message will appear.               <ul style="list-style-type: none"> <li>► Drive on</li> <li>► Operate the high beam manually until Adaptive High Beam Assist is available again.</li> </ul> </li> </ul>
<p>Adaptive Highbeam Assist inoperative</p>	<ul style="list-style-type: none"> <li>* Adaptive Highbeam Assist is malfunctioning.               <ul style="list-style-type: none"> <li>► Drive on</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> <li>► Until then, operate the high beam manually.</li> </ul> </li> </ul>
<p>Adaptive Highbeam Assist Plus currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Adaptive Highbeam Assist Plus is temporarily unavailable. The system limits have been reached (→ page 156). Once the cause of the problem is no longer present, the system will be available again. The <b>Adaptive Highbeam Assist Plus available again</b> display message will appear.</li> </ul>





Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Drive on</li> <li>► Operate the high beam manually until Adaptive High Beam Assist Plus is available again.</li> </ul>
Adaptive Highbeam Assist Plus inoperative	<p>* Adaptive Highbeam Assist Plus is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Drive on</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> <li>► Until then, operate the high beam manually.</li> </ul>
Hazard warning lamp system Malfunction	<p>* The hazard warning lamp switch is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Front left parking lights</p>	<p>* The front left parking light is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Front right parking lights</p>	<p>* The front right parking light is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul>





Display messages	Possible causes/consequences and ► Solutions
 Left low beam	<ul style="list-style-type: none"><li>* The left low beam is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Right low beam	<ul style="list-style-type: none"><li>* The right low beam is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Left main beam	<ul style="list-style-type: none"><li>* The left high beam is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Right main beam	<ul style="list-style-type: none"><li>* The right high beam is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>









Display messages	Possible causes/consequences and ► Solutions
 <p>Left daytime running lights</p>	<ul style="list-style-type: none"> <li>* The left daytime running lights are malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Right daytime running lights</p>	<ul style="list-style-type: none"> <li>* The right-hand daytime running lights are malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Left cornering light</p>	<ul style="list-style-type: none"> <li>* The left cornering light is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Right cornering light</p>	<ul style="list-style-type: none"> <li>* The right cornering light is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 Front left turn signal	<ul style="list-style-type: none"><li>* The front left turn signal lamp is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Rear left turn signal	<ul style="list-style-type: none"><li>* The rear left turn signal lamp is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Front right turn signal	<ul style="list-style-type: none"><li>* The front right turn signal lamp is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Rear right turn signal	<ul style="list-style-type: none"><li>* The rear right turn signal lamp is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>




Display messages	Possible causes/consequences and ► Solutions
 <p>Left mirror turn signal</p>	<ul style="list-style-type: none"> <li>* The turn signal lamp on the left mirror is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Right mirror turn signal</p>	<ul style="list-style-type: none"> <li>* The turn signal lamp on the right mirror is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Left brake lamp</p>	<ul style="list-style-type: none"> <li>* The left brake light is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Right brake lamp</p>	<ul style="list-style-type: none"> <li>* The right brake light is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>


Display messages	Possible causes/consequences and ► Solutions
 Third brake lamp	<ul style="list-style-type: none"><li>* The third brake light is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Left tail light	<ul style="list-style-type: none"><li>* The left tail light is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Right tail light	<ul style="list-style-type: none"><li>* The right tail light is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Reversing light	<ul style="list-style-type: none"><li>* The reversing light is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Rear fog light</p>	<ul style="list-style-type: none"> <li>* The rear fog light is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Number plate lamp</p>	<ul style="list-style-type: none"> <li>* The number plate lamp is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Trailer left turn signal</p>	<ul style="list-style-type: none"> <li>* The left turn signal lamp on the trailer is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Trailer right turn signal</p>	<ul style="list-style-type: none"> <li>* The right turn signal lamp on the trailer is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>


Display messages	Possible causes/consequences and ► Solutions
 Trailer brake lamp	<ul style="list-style-type: none"><li>* The brake light on the trailer is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
 Trailer tail light	<ul style="list-style-type: none"><li>* A tail light on the trailer is malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>
Inoperative indicator lamp in driver display. Consult workshop	<ul style="list-style-type: none"><li>* An indicator lamp on the driver's display is defective.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>

## Climate control


Display messages	Possible causes/consequences and ► Solutions
 <p>Inoperative See Owner's Man. (stationary heater)</p>	<ul style="list-style-type: none"> <li>* The stationary heater is temporarily malfunctioning.</li> <li>► When the vehicle is stationary on a level surface and the engine has cooled down, make up to four attempts to switch on the stationary heater, waiting several minutes between each attempt.</li> <li>► If the stationary heater does not switch on, consult a qualified specialist workshop.</li> </ul>
 <p>Currently unavailable Outside temperature too high</p>	<ul style="list-style-type: none"> <li>* The stationary heater cannot be activated if the outside temperature is above 15°C.</li> </ul>
 <p>Currently unavailable Battery low</p>	<ul style="list-style-type: none"> <li>* The on-board electrical system voltage is too low. The stationary heater has switched itself off.</li> <li>► Drive an extended distance until the battery has reached a sufficient charge level again.</li> </ul>




Display messages	Possible causes/consequences and ► Solutions
 <p>Currently unavailable Refuel</p>	<ul style="list-style-type: none"> <li>* There is too little fuel in the fuel tank. The stationary heater cannot be switched on.               <ul style="list-style-type: none"> <li>► Refuel the vehicle.</li> </ul> </li> </ul>

## Vehicle

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>* The driver's display is inoperative due to a failed software update. The display message will be shown every time the engine is started.</li> </ul> <div style="background-color: #f0f0f0; padding: 10px; margin: 10px 0;"> <p><b>⚠ WARNING</b> Risk of accident if the driver display fails</p> <p>If the driver display has failed or is malfunctioning, function restrictions in systems relevant to safety cannot be detected.</p> <p>The operating safety of your vehicle may be impaired.</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have the vehicle checked immediately at a qualified specialist workshop.</li> </ul> </div> <p>If the operating safety of your vehicle is impaired, park the vehicle immediately and safely. Contact a qualified specialist workshop.</p>



Display messages	Possible causes/consequences and ► Solutions
	<p>If the driver's display fails, you may not recognise function restrictions affecting systems relevant to safety or the speed display, for example. The operating safety of the vehicle may be impaired (→ page 361).</p> <ul style="list-style-type: none"> <li>► Have the vehicle checked by a qualified specialist workshop immediately.</li> </ul>
 <p>Vehicle is ready to drive Shutdown occurs when locked or automatically in a few minutes</p>	<ul style="list-style-type: none"> <li>* You are leaving the vehicle in a ready-to-drive state. <ul style="list-style-type: none"> <li>► Get out of the vehicle, secure it against rolling away and take the key with you.</li> <li>► If you do not leave the vehicle, switch off the electrical consumers, e.g. the seat heating. Otherwise, the 12-V battery may discharge and starting the engine may be possible only with the help of a second battery (jump start).</li> </ul> </li> </ul>
<p>Vehicle is ready to drive Shutdown occurs when locked or automatically in XX mins</p>	<ul style="list-style-type: none"> <li>* You are about to leave the vehicle and the engine is running. The vehicle will switch off automatically in 20 minutes. <ul style="list-style-type: none"> <li>► To prevent the vehicle from switching off automatically, confirm the message in the central display of the multimedia system.</li> </ul> </li> <li>* You are in the vehicle. Park position <b>P</b> is engaged and the engine is running. After ten minutes, this display message appears in the driver display. The vehicle is switched off automatically after a further ten minutes. <ul style="list-style-type: none"> <li>► To prevent the vehicle from switching off automatically, confirm the message in the central display of the multimedia system.</li> </ul> </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Operation only possible in transmission position P</p>	<ul style="list-style-type: none"> <li>* The ball neck will not swivel because transmission position <b>D</b>, <b>R</b> or neutral <b>N</b> is selected. <ul style="list-style-type: none"> <li>► Depress the brake pedal.</li> <li>► Engage park position <b>P</b>.</li> </ul> </li> </ul>
 <p>Trailer coupling in motion</p>	<ul style="list-style-type: none"> <li>* The ball neck is retracting/extending. Do not attempt to speed up, slow down or initiate the swivel movement using your hand, foot or other aids. During the swivel movement, do not couple a trailer. When the ball neck has reached an operational position, the display message will disappear.</li> </ul>
 <p>Trailer coupling Check lock (white display message)</p>	<ul style="list-style-type: none"> <li>* The trailer hitch is not operational during a journey with a trailer. <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of an accident if the ball neck is not locked</p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p>The trailer may become detached.</p> <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>► Uncouple the trailer and secure it against rolling away.</li> <li>► Initiate a new swivelling procedure and do not re-couple the trailer until the display message disappears.</li> </ul> </div> </li> </ul> <ul style="list-style-type: none"> <li>► Stop immediately in accordance with the traffic conditions and switch off the vehicle.</li> <li>► Uncouple the trailer and secure it against rolling away.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Initiate a new swivel movement (→ page 295).</li> <li>► When the display message disappears, couple up the trailer and drive on.</li> </ul> <p>If the display message does not disappear, the trailer hitch is malfunctioning and the ball neck is not locked.</p> <ul style="list-style-type: none"> <li>► Do not couple up the trailer. Drive on without the trailer. Note the reduced ground clearance due to the unlocked ball neck.</li> <li>► Consult a qualified specialist workshop.</li> </ul> <p>* When the vehicle is stationary with a coupled trailer, the trailer hitch is not operational.</p> <ul style="list-style-type: none"> <li>► Uncouple the coupled trailer and secure it against rolling away.</li> <li>► <b>If the ball neck has been retracted:</b> initiate a new swivel movement (→ page 295). The ball neck will engage vertically in the locked position and then engage beneath the bumper.</li> <li>► <b>If the ball neck has been extended:</b> initiate a new swivel movement (→ page 295). The ball neck will engage beneath the bumper.</li> </ul> <p>If the display message does not disappear, the trailer hitch is malfunctioning and the ball neck is not locked.</p> <ul style="list-style-type: none"> <li>► Do not couple up the trailer. Drive on without the trailer. Note the reduced ground clearance due to the unlocked ball neck.</li> <li>► Consult a qualified specialist workshop.</li> </ul>

## Display messages



Trailer coupling Check  
lock (red display message)

## Possible causes/consequences and ► Solutions

- \* The trailer hitch is not operational during a journey with a trailer.

**⚠ WARNING** Risk of an accident if the ball neck is not locked

The trailer may become detached.


- ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.
- ▶ Uncouple the trailer and secure it against rolling away.
- ▶ Initiate a new swivelling procedure and do not re-couple the trailer until the display message disappears.



- ▶ Stop immediately in accordance with the traffic conditions and switch off the vehicle.
- ▶ Uncouple the trailer and secure it against rolling away.
- ▶ Initiate a new swivel movement (→ page 295).
- ▶ When the display message disappears, couple up the trailer and drive on.




If the display message does not disappear, the trailer hitch is malfunctioning and the ball neck is not locked.

- ▶ Do not couple up the trailer. Drive on without the trailer. Note the reduced ground clearance due to the unlocked ball neck.
  - ▶ Consult a qualified specialist workshop.
- \* When the vehicle is stationary with a coupled trailer, the trailer hitch is not operational.
    - ▶ Uncouple the coupled trailer and secure it against rolling away.


Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► <b>If the ball neck has been retracted:</b> initiate a new swivel movement (→ page 295). The ball neck will engage vertically in the locked position and then engage beneath the bumper.</li> <li>► <b>If the ball neck has been extended:</b> initiate a new swivel movement (→ page 295). The ball neck will engage beneath the bumper.</li> </ul> <p>If the display message does not disappear, the trailer hitch is malfunctioning and the ball neck is not locked.</p> <ul style="list-style-type: none"> <li>► Do not couple up the trailer. Drive on without the trailer. Note the reduced ground clearance due to the unlocked ball neck.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
<p>Please teach in trailer coupling again using the button in load compartment Wait for it to extend/retract</p>	<ul style="list-style-type: none"> <li>* The swivel movement of the trailer hitch is impaired. <ul style="list-style-type: none"> <li>► Use the button on the boot lid to trigger a new, complete swivel movement until the ball neck engages beneath the bumper.</li> </ul> </li> </ul>
<p>Head-up display currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The head-up display is temporarily unavailable. Possible causes: <ul style="list-style-type: none"> <li>• malfunctions in the power supply</li> <li>• signal interference</li> </ul> </li> <li>► Stop in accordance with the traffic conditions and switch the vehicle off and on again.</li> <li>► If the display message still appears, consult a qualified specialist workshop.</li> </ul>




Display messages	Possible causes/consequences and ► Solutions
Head-up display inoperative	<ul style="list-style-type: none"> <li>* The head-up display has an internal error.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
Head-up display Brightness currently reduced See Owner's Manual	<ul style="list-style-type: none"> <li>* The brightness of the head-up display is reduced. Possible causes:               <ul style="list-style-type: none"> <li>• Dirt on the windscreen in the camera's field of vision</li> <li>• Faulty exterior brightness signals</li> </ul> </li> <li>► Switch on the windscreen wipers.</li> <li>► Clean the windscreen if necessary.</li> <li>► Switch the vehicle off and switch it back on</li> <li>► If the display message still appears, consult a qualified specialist workshop.</li> </ul>
 <p>Steering malfunction Drive carefully Visit workshop</p>	<ul style="list-style-type: none"> <li>* A power steering malfunction has occurred. Steering characteristics may be impaired as a result.               <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>


Display messages	Possible causes/consequences and ► Solutions
 <p>Steering malfunction Increased physical effort See Owner's Manual</p>	<p>* The power steering assistance is malfunctioning.</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of an accident due to altered steering characteristics</p> <p>If the power assistance of the steering fails partially or completely, you will need to use more force to steer.</p> <ul style="list-style-type: none"> <li>► If safe steering is possible, drive on carefully.</li> <li>► Visit or consult a qualified specialist workshop immediately.</li> </ul> </div> <ul style="list-style-type: none"> <li>► If safe steering is possible, drive on carefully.</li> <li>► Visit or consult a qualified specialist workshop immediately.</li> </ul>
 <p>Steering malfunction Stop immediately See Owner's Manual</p>	<p>* The steering is malfunctioning. Steering capability is significantly impaired.</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of accident if steering capability is impaired</p> <p>If the steering does not function as intended, the vehicle's operating safety is jeopardised.</p> <ul style="list-style-type: none"> <li>► Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances.</li> <li>► Consult a qualified specialist workshop.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>► Consult a qualified specialist workshop.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Rear axle steering currently malfunctioning</p>	<p>* The rear-axle steering is temporarily unavailable. The turning circle may become wider.</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> </ul> <p>If the display message does not disappear:</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Rear axle steering Malfunction Visit workshop</p>	<p>* The rear axle steering is malfunctioning.</p> <p>The rear axle has no steering capability.</p> <p>The steering wheel may be at an angle when you drive in a straight line.</p> <ul style="list-style-type: none"> <li>► Adapt your speed and drive on carefully.</li> <li>► Consult a qualified specialist workshop immediately.</li> </ul>
 <p>Rear axle steering Malfunction Stop immediately</p>	<p>* The rear axle steering is malfunctioning.</p> <p>The rear axle has no steering capability.</p> <p>The steering wheel may be tilted considerably when you drive in a straight line.</p> <p>Depending on the steering wheel's tilted position, the steering wheel will also vibrate and a continuous warning tone will sound.</p> <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>▲ WARNING</b> Risk of accident if steering capability is impaired</p> </div> <p>If the steering does not function as intended, the vehicle's operating safety is jeopardised.</p>





Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances.</li> <li>► Consult a qualified specialist workshop.</li> </ul> <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>► When stopping, bear the enlarged vehicle width in mind.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
Snow chain mode Maximum speed exceeded	<ul style="list-style-type: none"> <li>* The maximum permissible speed for snow chain mode has been exceeded.</li> <li>► Drive more slowly.</li> </ul>
Active bonnet malfunction See Owner's Manual	<ul style="list-style-type: none"> <li>* The active bonnet (pedestrian protection) is malfunctioning or inoperative after having already been triggered.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
Ambient light warning support inoperative	<ul style="list-style-type: none"> <li>* The ambient lighting may not provide full visual warning support.</li> <li>► Lock the vehicle and unlock it again after a few minutes.</li> <li>► If the display message appears regularly, contact a qualified specialist workshop.</li> </ul>
	<ul style="list-style-type: none"> <li>* At least one door is open.</li> <li>► Close all doors.</li> </ul>




Display messages	Possible causes/consequences and ► Solutions
	<p>* The boot lid is open.</p> <p><b>▲ DANGER</b> Risk of exhaust gas poisoning</p> <p>Combustion engines emit poisonous exhaust gases such as carbon monoxide. Exhaust gases can enter the vehicle interior if the boot lid is open when the engine is running, especially if the vehicle is in motion.</p> <ul style="list-style-type: none"><li>► Always switch off the engine before opening the boot lid.</li><li>► Never drive with the boot lid open.</li></ul> <p>► Close the boot lid.</p>
 <p>Rear left seat backrest not locked</p>	<p>* The seat backrest of the corresponding seat is not engaged.</p> <p>► Fold the seat backrest back until it engages.</p>
 <p>Rear right seat backrest not locked</p>	<p>* The seat backrest of the corresponding seat is not engaged.</p> <p>► Fold the seat backrest back until it engages.</p>


Display messages	Possible causes/consequences and ► Solutions
 <p>Top up washer fluid</p>	<ul style="list-style-type: none"> <li>* The washer fluid level in the washer fluid reservoir has dropped below the minimum.</li> <li>► Top up the washer fluid (→ page 476).</li> </ul>
<p>Wiper Malfunction</p>	<ul style="list-style-type: none"> <li>* The windscreen wiper is malfunctioning.</li> <li>► Restart the vehicle.</li> </ul> <p>If the display message still appears:</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul>

## Engine

Display messages	Possible causes/consequences and ► Solutions
<p>To switch off the vehicle, press the Start/Stop button for at least 3 seconds or 3 times</p>	<ul style="list-style-type: none"> <li>* You have pressed the start/stop button while the vehicle is in motion.</li> <li>► Information about switching off the vehicle while driving (→ page 182).</li> </ul>
<p>Cannot start vehicle See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The vehicle cannot be started.</li> <li>► Switch the vehicle off and switch it back on</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Top up coolant See Owner's Manual</p>	<p>► If the display message still appears, consult a qualified specialist workshop.</p> <p>* The coolant level is too low.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>!</b> NOTE Engine damage due to insufficient coolant</p> <p>► Avoid long journeys with insufficient coolant.</p> </div> <p>► Add coolant (→ page 475).</p> <p>► Have the engine cooling system checked at a qualified specialist workshop.</p>
 <p>Coolant Stop Switch off the vehicle</p>	<p>* The coolant is too hot.</p> <p>► Stop immediately in accordance with the traffic conditions and switch off the vehicle.</p> <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of burns when opening the bonnet</p> </div> <p>If you open the bonnet in the event of an overheated engine or fire in the engine compartment, the following situations may occur:</p> <ul style="list-style-type: none"> <li>• You may come into contact with hot gases.</li> <li>• You may come into contact with other escaping hot operating fluids.</li> </ul> <p>► Before opening the bonnet, allow the engine to cool down.</p> <p>► In the event of a fire in the engine compartment, keep the bonnet closed and call the fire service.</p>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Wait until the engine has cooled down.</li> <li>► Make sure that the air supply to the radiator is not obstructed.</li> <li>► Avoiding high loads on the engine, drive to the nearest qualified specialist workshop. In doing so, ensure that the coolant temperature display remains below 120°C.</li> </ul>
	<ul style="list-style-type: none"> <li>* There is a malfunction in the engine cooling system. <ul style="list-style-type: none"> <li>► Avoiding high loads on the engine, drive to the nearest qualified specialist workshop. In doing so, ensure that the coolant temperature display remains below 120°C.</li> </ul> </li> </ul>
 <p>Reserve fuel level</p>	<ul style="list-style-type: none"> <li>* The fuel supply has dropped into the reserve range. <ul style="list-style-type: none"> <li>► Refuel.</li> </ul> </li> </ul>
 <p>Clean the fuel filter</p>	<ul style="list-style-type: none"> <li>* <b>Vehicles with diesel engines:</b> the fuel filter is dirty or the water in the fuel filter needs to be drained. <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Replace air filter</p>	<ul style="list-style-type: none"> <li>* <b>Vehicles with diesel engines:</b> the engine air filter is dirty and must be replaced.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>

## Transmission

Display messages	Possible causes/consequences and ► Solutions
<p>Only select P when vehicle is stationary</p>	<ul style="list-style-type: none"> <li>* It is possible to select the park position <b>P</b> only if the vehicle is stationary.               <ul style="list-style-type: none"> <li>► Depress the brake pedal to stop.</li> <li>► Shift the transmission to park position <b>P</b> when the vehicle is stationary.</li> </ul> </li> </ul>
<p>Apply brake to deselect P position</p>	<ul style="list-style-type: none"> <li>* You have attempted to shift the transmission out of park position <b>P</b> and into another transmission position.               <ul style="list-style-type: none"> <li>► Depress the brake pedal.</li> <li>► Select transmission position <b>D</b>, <b>R</b> or neutral <b>N</b>.</li> </ul> </li> </ul>
<p>Apply brake and start vehicle to shift out of P or N</p>	<ul style="list-style-type: none"> <li>* You have attempted to shift the transmission out of park position <b>P</b> or neutral <b>N</b> and into another transmission position.               <ul style="list-style-type: none"> <li>► Depress the brake pedal.</li> <li>► Start the vehicle.</li> </ul> </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
Apply brake to engage D or R	<ul style="list-style-type: none"> <li>► Change the transmission position.</li> </ul> <p>* You have attempted to select transmission position <b>D</b> or <b>R</b>.</p> <ul style="list-style-type: none"> <li>► Depress the brake pedal.</li> <li>► Select transmission position <b>D</b> or <b>R</b>.</li> </ul>
Apply brake to engage R	<p>* You have attempted to select transmission position <b>R</b>.</p> <ul style="list-style-type: none"> <li>► Depress the brake pedal.</li> <li>► Select transmission position <b>R</b>.</li> </ul>
Apply parking brake to park Visit workshop	<p>* A malfunction has occurred in the emergency power supply to park position <b>P</b>.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> <li>► Until then, always select park position <b>P</b> manually before you switch off the vehicle.</li> <li>► Before leaving the vehicle, apply the electric parking brake.</li> </ul>
Risk of vehicle rolling away Driver's door open Transmission not in P	<p>* The driver's door is not fully closed and transmission position <b>D</b>, <b>R</b> or neutral <b>N</b> is selected. The vehicle may roll away.</p> <ul style="list-style-type: none"> <li>► Select park position <b>P</b> when switching off the vehicle.</li> </ul>
Risk of vehicle rolling away Apply parking brake to park	<p>* The transmission is malfunctioning. Park position <b>P</b> cannot be selected.</p> <ul style="list-style-type: none"> <li>► Park the vehicle safely.</li> <li>► Use the electric parking brake to secure the vehicle against rolling away.</li> </ul>





Display messages	Possible causes/consequences and ► Solutions
<p>Risk of vehicle rolling away N activated manually No automatic switch to P</p>	<p>► On gradients, turn the front wheels so that the vehicle will roll towards the kerb if it starts moving.</p> <p>* While the vehicle was at a standstill or driving at very low speed, neutral <b>N</b> was engaged with the engine running or the vehicle switched on.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>!</b> <b>NOTE</b> Damage to the vehicle due to rolling away</p> <p>When the vehicle is switched off or the driver's door is opened, automatic engagement of park position <b>P</b> is deactivated.</p> <p>The vehicle may roll away.</p> <p>► Be ready to brake.</p> <p>► Do not leave the vehicle unattended.</p> </div> <p>► Depress the brake pedal until the vehicle comes to a standstill.</p> <p>► Engage park position <b>P</b> when the vehicle is stationary with the brake pedal depressed.</p> <p>► To continue driving with the brake pedal depressed, select transmission position <b>D</b> or <b>R</b>.</p>
<p>N automatically activated Please engage transmission position again</p>	<p>* Neutral <b>N</b> was automatically engaged when the vehicle was rolling or being driven.</p> <p>ⓘ When you open the driver's door in neutral <b>N</b>, park position <b>P</b> will be engaged automatically.</p> <p>► Engage park position <b>P</b> when the vehicle is stationary with the brake pedal depressed.</p> <p>► To continue driving with the brake pedal depressed, select transmission position <b>D</b> or <b>R</b>.</p>








Display messages	Possible causes/consequences and ► Solutions
N is selected Please select desired transmission position	<ul style="list-style-type: none"> <li>* The accelerator pedal was depressed while the vehicle was rolling or moving in neutral <b>N</b>.               <ul style="list-style-type: none"> <li>► To accelerate the vehicle, select transmission position <b>D</b> or <b>R</b>.</li> </ul> </li> </ul>
Reversing not poss. Consult workshop	<ul style="list-style-type: none"> <li>* The transmission is malfunctioning. It is not possible to select transmission position <b>R</b>.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
Transmission Malfunction Stop	<ul style="list-style-type: none"> <li>* The transmission is malfunctioning. The transmission shifts to neutral <b>N</b> automatically.               <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions.</li> <li>► Depress the brake pedal.</li> <li>► Engage park position <b>P</b>.</li> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
Consult workshop without changing the transmission position	<ul style="list-style-type: none"> <li>* The transmission is malfunctioning. It is no longer possible to change the transmission position.               <ul style="list-style-type: none"> <li>► If transmission position <b>D</b> is selected, consult a qualified specialist workshop and do not change the transmission position.</li> <li>► For all other transmission positions, park the vehicle safely.</li> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
Auxiliary battery malfunction (white display message)	<ul style="list-style-type: none"> <li>* There is a malfunction in the auxiliary battery.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> <li>► Until then, always select park position <b>P</b> manually before you switch off the vehicle.</li> </ul> </li> </ul>






Display messages	Possible causes/consequences and ► Solutions
Auxiliary battery malfunction (red display message)	<ul style="list-style-type: none"> <li>► Before leaving the vehicle, apply the electric parking brake.</li> </ul> <p>* There is a malfunction in the auxiliary battery.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> <li>► Until then, always select park position <b>P</b> manually before you switch off the vehicle.</li> <li>► Before leaving the vehicle, apply the electric parking brake.</li> </ul>



## Brakes


Display messages	Possible causes/consequences and ► Solutions
 <p>Parking brake See Owner's Manual</p>	<p>* The yellow  indicator lamp is lit. The electric parking brake is malfunctioning.</p> <p><b>To apply:</b></p> <ul style="list-style-type: none"> <li>► Switch the vehicle off and switch it back on</li> <li>► Apply the electric parking brake manually (→ page 212).</li> </ul> <p>If it is not possible to apply the electric parking brake:</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> <li>► Where necessary, also secure the parked vehicle against rolling away.</li> </ul> <p>* The yellow  indicator lamp and the red  indicator lamp are lit. The electric parking brake is malfunctioning.</p> <p><b>To release:</b></p>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Switch the vehicle off and switch it back on</li> <li>► Release the electric parking brake manually (→ page 212).</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>► Release the electric parking brake automatically (→ page 212).</li> </ul> <p>If it is still not possible to release the electric parking brake:</p> <ul style="list-style-type: none"> <li>► Do not continue driving. Consult a qualified specialist workshop.</li> </ul> <p>* The yellow  indicator lamp is lit and the red  indicator lamp is flashing. The electric parking brake is malfunctioning.</p> <p>The electric parking brake could not be applied or released.</p> <ul style="list-style-type: none"> <li>► Switch the vehicle off and switch it back on</li> </ul> <p><b>To apply:</b></p> <ul style="list-style-type: none"> <li>► Release and then apply the electric parking brake manually (→ page 212).</li> </ul> <p><b>To release:</b></p> <ul style="list-style-type: none"> <li>► Apply and then release the electric parking brake manually.</li> </ul> <p>If it is not possible to apply the electric parking brake or the red  indicator lamp continues to flash:</p> <ul style="list-style-type: none"> <li>► Do not continue driving. Consult a qualified specialist workshop.</li> <li>► Where necessary, also secure the parked vehicle against rolling away.</li> </ul>

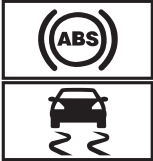
Display messages	Possible causes/consequences and ► Solutions
	<p>* The yellow  indicator lamp is lit and the red  indicator lamp flashes for approximately ten seconds after the electric parking brake has been applied or released. It then remains lit or goes out. The electric parking brake is malfunctioning.</p> <p><b>If the state of charge is too low:</b></p> <ul style="list-style-type: none"><li>► Charge the 12 V battery.</li></ul> <p><b>To apply:</b></p> <ul style="list-style-type: none"><li>► Apply the electric parking brake manually.</li></ul> <p>If it is not possible to apply the electric parking brake:</p> <ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li><li>► Where necessary, also secure the parked vehicle against rolling away.</li></ul> <p><b>To release:</b></p> <ul style="list-style-type: none"><li>► If the conditions for automatic release are fulfilled and the electric parking brake is not released automatically, release the electric parking brake manually (→ page 212).</li></ul> <p>If it is still not possible to release the electric parking brake:</p> <ul style="list-style-type: none"><li>► Do not continue driving. Consult a qualified specialist workshop.</li></ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Release parking brake</p>	<p>* The red  indicator lamp is flashing.</p> <p>The electric parking brake is applied while you are driving:</p> <ul style="list-style-type: none"> <li>• A condition for automatic release of the electric parking brake has not been fulfilled (→ page 212).</li> <li>• You are performing emergency braking using the electric parking brake (→ page 213).</li> </ul> <ul style="list-style-type: none"> <li>► Check the conditions for automatic release of the electric parking brake.</li> <li>► Release the electric parking brake manually.</li> </ul>
 <p>Parking brake Switch on vehicle to release</p>	<p>* The red  indicator lamp is lit.</p> <p>You have attempted to release the electric parking brake with the vehicle switched off.</p> <ul style="list-style-type: none"> <li>► Switch on the vehicle.</li> </ul>
 <p>Brake immediately</p>	<p>* A malfunction has occurred while the HOLD function was activated.</p> <p>A horn may also sound at regular intervals.</p> <p>You cannot start the vehicle system.</p> <ul style="list-style-type: none"> <li>► Immediately depress the brake pedal firmly until the display message disappears. You cannot start the vehicle system again.</li> </ul>



Display messages	Possible causes/consequences and ► Solutions
 <p>Malfunction See Owner's Manual</p>	<p>* The brake force boosting function is impaired. Hill Start Assist may be impaired.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>▲ WARNING</b> Risk of an accident due to a brake system malfunction</p> <p>If the brake system is malfunctioning, braking characteristics may be impaired.</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have the brake system checked immediately at a qualified specialist workshop.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Adjust your speed and drive on carefully, leaving a suitable distance to the vehicle in front.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Malfunction Stop vehicle</p>	<p>* The brake force boosting function is impaired and the braking characteristics may be affected.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>▲ WARNING</b> Risk of accident and injury if brake force boosting is malfunctioning</p> <p>If brake force boosting is malfunctioning, increased brake pedal force may be necessary for braking. The braking characteristics may be impaired. The braking distance can increase in emergency braking situations.</p> <ul style="list-style-type: none"> <li>► Stop in a safe location immediately. Do not continue driving!</li> <li>► Consult a qualified specialist workshop.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>► Consult a qualified specialist workshop.</li> </ul>


Display messages	Possible causes/consequences and ► Solutions
 <p>Check brake fluid level</p>	<p>* There is insufficient brake fluid in the brake fluid reservoir.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>▲ WARNING</b> Risk of an accident due to low brake fluid level</p> <p>If the brake fluid level is too low, the braking effect and the braking characteristics may be impaired.</p> <ul style="list-style-type: none"> <li>▶ Stop the vehicle as soon as possible, paying attention to road and traffic conditions. Do not continue driving.</li> <li>▶ Consult a qualified specialist workshop.</li> <li>▶ Do not top up the brake fluid.</li> </ul> </div> <ul style="list-style-type: none"> <li>▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>▶ Do not top up the brake fluid.</li> <li>▶ Consult a qualified specialist workshop.</li> </ul>
<p>Check brake pads See Owner's Manual</p>	<p>* The brakepads have reached the wear limit.</p> <ul style="list-style-type: none"> <li>▶ Consult a qualified specialist workshop.</li> </ul>

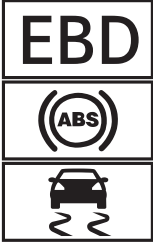

## Driving and driving safety systems



Display messages	Possible causes/consequences and ► Solutions
 <p>currently unavailable See Owner's Manual (ABS and ESP®)</p>	<p>* ABS and ESP® are temporarily unavailable. Other driving systems and driving safety systems (e.g. BAS) may also be temporarily unavailable. The brake system will continue to operate normally. Braking distance may increase in an emergency braking situation.</p> <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>▲ WARNING</b> Risk of skidding if ABS and ESP® are malfunctioning</p> </div> <p>The wheels may lock during braking and ESP® does not perform any vehicle stabilisation. The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off.</p> <ul style="list-style-type: none"> <li>▶ Drive carefully on a suitable stretch of road, making slight steering movements at a speed above 30 km/h.</li> <li>▶ If the display message does not disappear, consult a qualified specialist workshop immediately. Drive carefully.</li> </ul> <p> <span style="color: blue;">▶</span> Drive carefully on a suitable stretch of road, making slight steering movements at a speed above 30 km/h.  <span style="color: blue;">▶</span> If the display message does not disappear, consult a qualified specialist workshop immediately. Drive carefully.         </p>







Display messages	Possible causes/consequences and ► Solutions
 <p>inoperative See Owner's Manual (ABS and ESP®)</p>	<p>* ABS and ESP® are malfunctioning. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning. The brake system will continue to operate normally. Braking distance may increase in an emergency braking situation.</p> <p><b>▲ WARNING</b> Risk of skidding if ABS and ESP® are malfunctioning</p> <p>The wheels may block during braking and ESP® does not perform any vehicle stabilization.</p> <p>The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off.</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have ABS and ESP® checked immediately at a qualified specialist workshop.</li> </ul> <p>► Drive on carefully. ► Consult a qualified specialist workshop immediately.</p>
 <p>currently unavailable See Owner's Manual (ESP®)</p>	<p>* ESP® is temporarily unavailable. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning.</p> <p><b>▲ WARNING</b> Risk of skidding if ESP is malfunctioning®</p> <p>If ESP® is malfunctioning, ESP® cannot carry out vehicle stabilisation. In addition, other driving safety systems are switched off.</p>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Drive carefully on a suitable stretch of road, making slight steering movements at a speed above 30 km/h.</li> <li>► If the display message does not disappear, consult a qualified specialist workshop immediately. Drive carefully.</li> </ul> <ul style="list-style-type: none"> <li>► Drive carefully on a suitable stretch of road, making slight steering movements at a speed above 30 km/h.</li> <li>► If the display message does not disappear, consult a qualified specialist workshop immediately. Drive carefully.</li> </ul>
 <p>inoperative See Owner's Manual (ESP®)</p>	<p>* ESP® is malfunctioning. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning. The brake system will continue to operate normally. Braking distance may increase in an emergency braking situation.</p> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 10px;"> <p><b>▲ WARNING</b> Risk of skidding if ESP® is malfunctioning</p> </div> <p>If ESP® is malfunctioning, ESP® cannot carry out vehicle stabilisation. In addition, other driving safety systems are switched off.</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have ESP® checked at a qualified specialist workshop.</li> </ul> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Consult a qualified specialist workshop immediately.</li> </ul>



Display messages	Possible causes/consequences and ► Solutions
 <p>inoperative See Owner's Manual (EBD, ABS and ESP®)</p>	<p>* EBD, ABS and ESP® are malfunctioning. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>▲ WARNING</b> Risk of skidding if EBD, ABS and ESP® are malfunctioning</p> <p>The wheels may block during braking and ESP® does not perform any vehicle stabilization.</p> <p>The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off.</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have the brake system checked immediately at a qualified specialist workshop.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Consult a qualified specialist workshop immediately.</li> </ul>
 <p>Off</p>	<p>* The HOLD function is deactivated because the vehicle is slipping or a condition for activation is not fulfilled.</p> <ul style="list-style-type: none"> <li>► Reactivate the HOLD function later or check the activation conditions for the HOLD function (→ page 220).</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>ATTENTION ASSIST: Take a break!</p>	<ul style="list-style-type: none"><li>* ATTENTION ASSIST has detected fatigue or an increasing lack of concentration on the part of the driver (→ page 222).<ul style="list-style-type: none"><li>► If necessary, take a break.</li></ul></li></ul>
 <p>ATTENTION ASSIST Micro-sleep Take a break!</p>	<ul style="list-style-type: none"><li>* ATTENTION ASSIST has detected indicators of microsleep (→ page 222). A warning tone will also sound.<ul style="list-style-type: none"><li>► Take a break.</li><li>► Press the left-hand Touch Control and acknowledge the display message.</li></ul></li></ul>
<p>ATTENTION ASSIST Remain alert! (white display message)</p>	<ul style="list-style-type: none"><li>* ATTENTION ASSIST has detected that the driver is looking away from the traffic situation (→ page 222). A warning tone will also sound.<ul style="list-style-type: none"><li>► Look back at the traffic situation.</li></ul></li></ul>
<p>ATTENTION ASSIST Remain alert! (yellow display message)</p>	<ul style="list-style-type: none"><li>* ATTENTION ASSIST has detected that the driver is not looking at the traffic situation after the warning has been issued (→ page 222). A continuous warning tone will also sound.<ul style="list-style-type: none"><li>► Immediately return your gaze to the traffic situation.</li><li>► Press the left-hand Touch Control and acknowledge the display message.</li></ul></li></ul>



Display messages	Possible causes/consequences and ► Solutions
 <p>--- km/h</p>	<p>If the driver still does not react to the warning, an emergency stop can be initiated by the system (→ page 239).</p> <ul style="list-style-type: none"> <li>* Cruise control cannot be activated as not all activation conditions are fulfilled.           <ul style="list-style-type: none"> <li>► Observe the activation conditions for cruise control (→ page 225).</li> </ul> </li> </ul>
<p>Cruise control inoperative</p>	<ul style="list-style-type: none"> <li>* Cruise control is malfunctioning.           <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>Cruise control and Limiter inoperative</p>	<ul style="list-style-type: none"> <li>* Cruise control and the limiter are malfunctioning.           <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>Cruise control off</p>	<ul style="list-style-type: none"> <li>* Cruise control has been deactivated.           <p>If there is an additional warning tone, cruise control has been deactivated automatically (→ page 224).</p> </li> </ul>
 <p>--- km/h</p>	<ul style="list-style-type: none"> <li>* The limiter can temporarily not be engaged. Once the cause of the problem is no longer present, the system will be available again.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>passive</p>	<ul style="list-style-type: none"> <li>* If you depress the accelerator pedal beyond the point of resistance (kickdown), the limiter will be switched to passive mode (→ page 225).</li> </ul>
<p>Limiter inoperative</p>	<ul style="list-style-type: none"> <li>* The limiter is malfunctioning. <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>Speed limit (winter tyres) XXX km/h</p>	<ul style="list-style-type: none"> <li>* You have reached the maximum permissible stored speed for winter tyres. It is not possible to exceed this speed.</li> </ul>
 <p>Maximum speed exceeded</p>	<ul style="list-style-type: none"> <li>* You have exceeded the maximum permissible speed (for certain countries only). <ul style="list-style-type: none"> <li>► Drive more slowly.</li> </ul> </li> </ul>
<p>Speed Limit Assist currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Speed Limit Assist is temporarily unavailable. <ul style="list-style-type: none"> <li>► Drive on</li> <li>Once the cause of the problem is no longer present, the system will be available again.</li> </ul> </li> </ul>
<p>Speed Limit Assist inoperative</p>	<ul style="list-style-type: none"> <li>* Speed Limit Assist is malfunctioning. <ul style="list-style-type: none"> <li>► Drive on</li> <li>or</li> </ul> </li> </ul>


Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul>
<p>Traffic Sign Assist currently unavailable See Owner's Manual</p>	<p>* Traffic Sign Assist is temporarily unavailable. Once the cause of the problem is no longer present, the system will be available again.</p> <ul style="list-style-type: none"> <li>► Continue driving in compliance with the traffic regulations.</li> </ul>
<p>Traffic Sign Assist inoperative</p>	<p>* Traffic Sign Assist is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Continue driving in compliance with the traffic regulations.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul>
<div> </div> <p>Fault Drive at max. 80 km/h</p>	<p>* AIRMATIC is functioning only to a limited extent. The vehicle's handling characteristics may be affected.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>!</b> <b>NOTE</b> The tyres on the front axle or the fenders could be damaged by large steering movements</p> <ul style="list-style-type: none"> <li>► Avoid large steering movements while driving and listen for scraping sounds.</li> <li>► If you hear scraping sounds, pull over and stop the vehicle in accordance with the traffic conditions, and set a higher vehicle level if possible.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Drive in a manner appropriate for the current level, but do not exceed 80 km/h.</li> <li>► Consult a qualified specialist workshop.</li> </ul>



Display messages	Possible causes/consequences and ► Solutions
 <p>STOP Vehicle level too low</p>	<p>* You have pulled away despite the vehicle level being too low.</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions. The vehicle will be raised to the selected vehicle level.</li> <li>► Wait until the display message disappears before pulling away.</li> </ul> <p>If the display message does not disappear and a warning tone also sounds, AIRMATIC is malfunctioning:</p> <ul style="list-style-type: none"> <li>► No faster than 80 km/h and consult a qualified specialist workshop immediately.</li> </ul> <div style="border: 1px solid gray; padding: 5px;"> <p><b>!</b> <b>NOTE</b> The tyres on the front axle or the fenders could be damaged by large steering movements</p> <ul style="list-style-type: none"> <li>► Avoid large steering movements while driving and listen for scraping sounds.</li> <li>► If you hear scraping sounds, pull over and stop the vehicle in accordance with the traffic conditions, and set a higher vehicle level if possible.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Set a higher vehicle level (→ page 262). Depending on the malfunction, the vehicle will be raised.</li> </ul>
 <p>Vehicle rising Please wait</p>	<p>* The vehicle level is too low. The vehicle will be raised to the selected vehicle level.</p> <ul style="list-style-type: none"> <li>► Wait until the display message disappears before pulling away.</li> </ul>




Display messages	Possible causes/consequences and ► Solutions
 <p>Max. speed 20km/h</p>	<ul style="list-style-type: none"> <li>* AIRMATIC is functioning only to a limited extent. The current level is too high. The vehicle's handling characteristics may be affected.</li> <li>► No faster than 20 km/h.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Compressor is cooling</p>	<ul style="list-style-type: none"> <li>* Due to frequent level changes within a short space of time, the compressor first needs to cool down in order to set the selected vehicle level. When the compressor has cooled down, the vehicle will continue rising to the selected vehicle level.</li> <li>► Drive on in a manner appropriate for the current level. Make sure that there is sufficient ground clearance.</li> </ul>


### Driver assistance systems

Display messages	Possible causes/consequences and ► Solutions
 <p>--- km/h</p>	<ul style="list-style-type: none"> <li>* Active Distance Assist DISTRONIC cannot be activated as not all activation conditions are fulfilled.</li> <li>► Comply with the activation conditions of Active Distance Assist DISTRONIC (→ page 231).</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>suspended</p>	<p>* If you depress the accelerator pedal beyond the setting of Active Distance Assist DISTRONIC, the system will switch to passive mode (→ page 228).</p>
 <p>Off</p>	<p>* Active Distance Assist DISTRONIC was deactivated. If a warning tone also sounds, Active Distance Assist DISTRONIC has deactivated automatically (→ page 231).</p>
<p>Active Distance Assist currently unavailable See Owner's Manual</p>	<p>* Active Distance Assist DISTRONIC is temporarily unavailable. The ambient conditions are outside the system limits (→ page 228). As soon as the ambient conditions are within the system limits, the system will become available again.</p> <p>► Drive on carefully. or ► If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the vehicle.</p>
<p>Active Distance Assist inoperative</p>	<p>* Active Distance Assist DISTRONIC is malfunctioning. Other driving systems and driving safety systems may also be malfunctioning.</p> <p>► Drive on carefully.</p>

Display messages	Possible causes/consequences and ► Solutions
	<p>or</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul>
Active Distance Assist available again	<p>* Active Distance Assist DISTRONIC is operational again.</p> <ul style="list-style-type: none"> <li>► Switch on Active Distance Assist DISTRONIC (→ page 231).</li> </ul>
Active Brake Assist Functions currently limited See Owner's Manual	<p>* ► Drive on carefully. As soon as the ambient conditions are within the system limits, the system will become available again.</p> <p>or</p> <ul style="list-style-type: none"> <li>► If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> </ul>
Active Brake Assist Functions limited See Owner's Manual	<p>* For vehicles with the Driving Assistance Package, the following functions may be temporarily unavailable or only partially available:</p> <ul style="list-style-type: none"> <li>• Active Brake Assist with cross-traffic function</li> <li>• Evasive Steering Assist</li> <li>• PRE-SAFE® PLUS</li> </ul> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
<p>Active Steering Assist currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Active Steering Assist is temporarily unavailable. The ambient conditions are outside the system limits (→ page 237). As soon as the ambient conditions are within the system limits, the system will become available again.</li> <li>► Drive on</li> <li>► Check the tyre pressure if necessary.</li> </ul>
<p>Active Steering Assist inoperative</p>	<ul style="list-style-type: none"> <li>* Active Steering Assist is malfunctioning. Active Distance Assist DISTRONIC remains available.</li> <li>► Drive on</li> <li>or</li> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul>
	<ul style="list-style-type: none"> <li>* Active Steering Assist has reached the system limits (→ page 237). You have not steered independently for a considerable period of time.</li> <li>► Take over the steering and drive on in accordance with the traffic conditions.</li> </ul>
<p>Active Steering Assist currently unavailable due to multiple emergency stops</p>	<ul style="list-style-type: none"> <li>* Active Steering Assist is temporarily unavailable due to multiple emergency stops.</li> <li>► Take over the steering and stop in accordance with the traffic conditions.</li> <li>► Switch the vehicle off and switch it back on Active Steering Assist is available once more.</li> </ul>


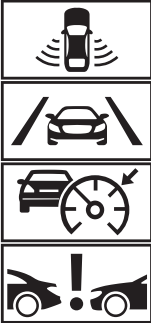
Display messages	Possible causes/consequences and ► Solutions
 <p>Beginning emergency stop</p>	<ul style="list-style-type: none"> <li>* Your hands are not on the steering wheel. Active Steering Assist will initiate an emergency stop (→ page 237).               <ul style="list-style-type: none"> <li>► Put your hands on the steering wheel.</li> </ul> </li> </ul> <p>Information on cancelling an emergency stop (→ page 239).</p>
<p>Active Emergency Stop Assist currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Active Emergency Stop Assist is temporarily unavailable. The ambient conditions are outside the system limits (→ page 239). As soon as the ambient conditions are within the system limits, the system will become available again.               <ul style="list-style-type: none"> <li>► Drive on.</li> <li>or</li> <li>► If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> </ul> </li> <li>* <b>Vehicles without the Driving Assistance Package:</b> Active Emergency Stop Assist is temporarily unavailable due to multiple emergency stops.               <ul style="list-style-type: none"> <li>► Take over the steering and stop in accordance with the traffic conditions.</li> <li>► Switch the vehicle off and switch it back on Active Emergency Stop Assist is available once more.</li> </ul> </li> </ul>
<p>Active Emergency Stop Assist inoperative</p>	<ul style="list-style-type: none"> <li>* Active Emergency Stop Assist is malfunctioning.               <ul style="list-style-type: none"> <li>► Drive on</li> <li>or</li> </ul> </li> </ul>







Display messages	Possible causes/consequences and ► Solutions
<p>Active Lane Change Assist currently unavailable See Owner's Manual</p>	<ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul> <p>* Active Lane Change Assist is temporarily unavailable. The ambient conditions are outside the system limits (→ page 241). As soon as the ambient conditions are within the system limits, the system will become available again.</p> <ul style="list-style-type: none"> <li>► Drive on</li> <li>or</li> <li>► If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> </ul>
<p>Active Lane Change Assist inoperative</p>	<p>* Active Lane Change Assist is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Drive on</li> <li>or</li> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul>
<p>Active Stop-and-Go Assist currently unavailable see Owner's Manual</p>	<p>* Active Stop-and-Go Assist is temporarily unavailable. Active Distance Assist DISTRONIC and Active Steering Assist are still available. The ambient conditions are outside the system limits (→ page 228). As soon as the ambient conditions are within the system limits, the system will become available again.</p> <ul style="list-style-type: none"> <li>► Drive on</li> </ul>


Display messages	Possible causes/consequences and ► Solutions
<p>Active Stop-and-Go Assist inoperative See Owner's Manual</p>	<p>* Active Stop-and-Go Assist is malfunctioning. Active Stop-and-Go Assist has been deactivated. Active Distance Assist DISTRONIC and Active Steering Assist are still available.</p> <p>► Drive on or ► Stop the vehicle in accordance with the traffic conditions and restart the vehicle. ► If the display message does not disappear: consult a qualified specialist workshop.</p>
<p>Active Blind Spot Assist currently unavailable See Owner's Manual</p>	<p>* Active Blind Spot Assist is temporarily unavailable. The system limits have been reached (→ page 255). Once the cause of the problem is no longer present, the system will be available again.</p> <p>► Drive on or ► If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the vehicle.</p>
<p>Active Blind Spot Assist inoperative</p>	<p>* Active Blind Spot Assist is malfunctioning.</p> <p>► Drive on or ► Stop the vehicle in accordance with the traffic conditions and restart the vehicle. ► If the display message does not disappear: consult a qualified specialist workshop.</p>

Display messages	Possible causes/consequences and ► Solutions
<b>Active Blind Spot Assist unavailable when towing a trailer</b> See Owner's Manual	<ul style="list-style-type: none"><li>* When you establish the electrical connection to the trailer, Active Blind Spot Assist will be unavailable.<ul style="list-style-type: none"><li>► Press the left-hand Touch Control and acknowledge the display message.</li></ul></li></ul>
<b>Active Lane Keeping Assist currently unavailable</b> See Owner's Manual	<ul style="list-style-type: none"><li>* Active Lane Keeping Assist is temporarily unavailable. The ambient conditions are outside the system limits (→ page 258). As soon as the ambient conditions are within the system limits, the system will become available again.<ul style="list-style-type: none"><li>► Drive on</li></ul></li></ul>
<b>Active Lane Keeping Assist inoperative</b>	<ul style="list-style-type: none"><li>* Active Lane Keeping Assist is malfunctioning.<ul style="list-style-type: none"><li>► Drive on</li><li>or</li><li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li><li>► If the display message does not disappear: consult a qualified specialist workshop.</li></ul></li></ul>
<b>Active Lane Keeping Assist functions restricted</b> See Owner's Manual	<ul style="list-style-type: none"><li>* Active Lane Keeping Assist is available but restricted.<ul style="list-style-type: none"><li>► Drive on</li><li>or</li><li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li><li>► If the display message does not disappear: consult a qualified specialist workshop.</li></ul></li></ul>



Display messages	Possible causes/consequences and ► Solutions
 <p>Beginning emergency stop</p>	<p>* Your hands are not on the steering wheel. The Active Lane Keeping Assist will initiate an emergency stop (→ page 258).</p> <p>► Put your hands on the steering wheel.</p> <p>Information on cancelling an emergency stop (→ page 239).</p>
 <p>temporarily unavailable Sensors dirty</p>	<p>* Front and corner radar sensors (hereafter "sensors") are malfunctioning. Possible causes:</p> <ul style="list-style-type: none"> <li>• The sensors are dirty</li> <li>• Heavy rain or snow</li> <li>• Extended country driving without other traffic, e.g. in the desert</li> </ul> <p>Driving systems and driving safety systems may be malfunctioning or temporarily unavailable. The brake system, steering and drive system will continue to function normally.</p> <p>► Drive on carefully.</p> <p>Once the causes of the problem are no longer present, the driving systems and driving safety systems will be available again and the corresponding symbols will be switched off.</p> <p>If the display message does not disappear:</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions.</li> <li>► Clean all sensor covers from outside (→ page 215).</li> <li>► Restart the vehicle.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Camera view restricted See Owner's Manual</p>	<p>* The view of the multifunction camera is restricted. Possible causes:</p> <ul style="list-style-type: none"> <li>• Dirt on the windscreen in the field of vision of the multifunction camera</li> <li>• Heavy rain, snow or fog</li> <li>• Mist on the inside of the windscreen: in certain weather conditions, mist can form on the inside of the windscreen during cold times of year in particular.</li> </ul> <p>  This mist on the windscreen will be removed automatically within a short time with the aid of a heater. The restriction is temporary. </p> <p>Driving systems and driving safety systems may be malfunctioning or temporarily unavailable. The brake system, steering and drive system will continue to function normally.</p> <p>  Drive on carefully. </p> <p>Once the causes of the problem are no longer present, the driving systems and driving safety systems will be available again and the corresponding symbols will be switched off.</p> <p>If the display message does not disappear:</p> <ul style="list-style-type: none"> <li>  Stop the vehicle in accordance with the traffic conditions. </li> <li>  Clean the windscreen, especially in the position of the multifunction camera (→ page 215). </li> <li>  Restart the vehicle. </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Restricted during trailer operation</p>	<p>* When the trailer socket is occupied, some driving systems will be available only to a limited extent.</p> <ul style="list-style-type: none"> <li>► Drive carefully if you are towing a trailer or have the bicycle rack mounted.</li> </ul>
<p>Driver camera view currently restricted See Owner's Manual</p>	<p>* The view of the driver camera is reduced. Possible causes:</p> <ul style="list-style-type: none"> <li>• Objects or stickers are projecting into the driver camera's field of vision.</li> <li>• The driver camera is dirty.</li> </ul> <ul style="list-style-type: none"> <li>► Keep the driver camera's field of vision free.</li> <li>► Clean the driver camera if necessary. Please comply with the notes on caring for the interior relating to the display (→ page 482).</li> </ul>


Display messages	Possible causes/consequences and ► Solutions
<p>Change steering wheel/ seat position until 6 dots are visible on the upper edge of the screen</p>	<ul style="list-style-type: none"> <li>* The driver camera cannot capture your line of sight.               <ul style="list-style-type: none"> <li>► Change the steering wheel and seat position until six dots are visible on the top edge of the screen. The display message will appear again if the driver camera is again unable to detect your line of sight after 30 minutes.</li> <li>The display message will no longer appear if you confirm the display message and the driver camera cannot detect your line of sight during the entire journey.</li> </ul> </li> </ul>
<p>Driver camera inoperative See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The driver camera is malfunctioning.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>PRE-SAFE inoperative See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The PRE-SAFE® functions are malfunctioning.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>PRE-SAFE impulse side inoperative See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The PRE-SAFE® Impulse Side system is malfunctioning or inoperative after having already been triggered.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>PRE-SAFE PLUS inoperative See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The PRE-SAFE® system is malfunctioning.               <ul style="list-style-type: none"> <li>► Drive on</li> <li>or</li> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message does not disappear: consult a qualified specialist workshop.</li> </ul> </li> </ul>

## Parking assistance systems


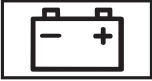
Display messages	Possible causes/consequences and ► Solutions
<p>PARKTRONIC inoperative See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Parking Assist PARKTRONIC is malfunctioning. Once the cause of the problem is no longer present, the system will be available again.               <ul style="list-style-type: none"> <li>► Continue driving while paying attention to the vehicle's surroundings.</li> <li>or</li> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message still appears, consult a qualified specialist workshop.</li> </ul> </li> </ul>
<p>PARKTRONIC and manoeuvring assistant unavailable at rear when towing a trailer</p>	<ul style="list-style-type: none"> <li>* If transport equipment, e.g. a trailer or bicycle rack, is attached to the trailer hitch and the electrical connection is correctly established, Parking Assist PARKTRONIC is not available at the rear when reversing. The rear manoeuvring assistant is also unavailable in this situation.               <ul style="list-style-type: none"> <li>► Press the left-hand Touch Control and acknowledge the display message.</li> </ul> </li> </ul>
<p>Active Parking Assist and PARKTRONIC inoperative See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* Active Parking Assist and Parking Assist PARKTRONIC are malfunctioning. Once the cause of the problem is no longer present, the system will be available again.               <ul style="list-style-type: none"> <li>► Continue driving while paying attention to the vehicle's surroundings.</li> <li>or</li> <li>► Stop the vehicle in accordance with the traffic conditions and restart the vehicle.</li> <li>► If the display message still appears, consult a qualified specialist workshop.</li> </ul> </li> </ul>




Display messages	Possible causes/consequences and ► Solutions
<p>Limited availability of Active Parking Assist manoeuvring assistant See Owner's Manual</p>	<ul style="list-style-type: none"><li>* Active Parking Assist's manoeuvring assistant is temporarily unavailable or only partially available.<ul style="list-style-type: none"><li>► Clean all sensors of the parking and camera system (→ page 481).</li><li>► If the display message still appears, consult a qualified specialist workshop.</li></ul></li></ul>

### Mercedes-Benz emergency call system




Display messages	Possible causes/consequences and ► Solutions
 <p>Inoperative</p>	<ul style="list-style-type: none"><li>* The Mercedes-Benz emergency call system is malfunctioning. The Mercedes me connect system is also malfunctioning.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop.</li></ul></li></ul>

## Battery

Display messages	Possible causes/consequences and ► Solutions
 <p>12 V on-board electrical system Visit workshop</p>	<ul style="list-style-type: none"> <li>* The 12 V on-board electrical system is malfunctioning.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop immediately.</li> </ul> </li> </ul>
 <p>Stop vehicle See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The 12 V battery is no longer being charged and the state of charge is too low.               <div style="border: 1px solid gray; padding: 5px; margin: 5px 0;"> <p><b>!</b> <b>NOTE</b> Possible engine damage if you continue driving</p> <ul style="list-style-type: none"> <li>► Do not continue driving under any circumstances.</li> <li>► Consult a qualified specialist workshop.</li> </ul> </div> <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>► Switch off the vehicle.</li> <li>► Consult a qualified specialist workshop.</li> </ul> </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Start the vehicle to charge the 12 V battery</p>	<ul style="list-style-type: none"><li>* The vehicle is off and the state of charge of the 12 V battery is too low.<ul style="list-style-type: none"><li>► Switch off electrical consumers that are not required.</li><li>► Drive for 30–60 mins.</li></ul></li><li>or</li><li>► Charge the 12 V battery when stationary (→ page 496).</li></ul>
 <p>Stop vehicle Leave vehicle on to charge the 12 V battery</p>	<ul style="list-style-type: none"><li>* The 12 V battery charge level is too low.<ul style="list-style-type: none"><li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li><li>► Leave the vehicle running</li><li>► If the display message disappears: drive on.</li><li>► If the display message does not disappear: consult a qualified specialist workshop.</li></ul></li></ul>
 <p>Stop vehicle See Owner's Manual</p>	<ul style="list-style-type: none"><li>* The 48 V on-board electrical system is malfunctioning.<ul style="list-style-type: none"><li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li><li>► Switch off the vehicle.</li><li>► Consult a qualified specialist workshop.</li></ul></li></ul>






Display messages	Possible causes/consequences and ► Solutions
 <p>Battery overheated Stop, everybody out! Outdoors if possible</p>	<ul style="list-style-type: none"> <li>* The 48 V battery is overheating. There is a risk of fire.               <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions.</li> <li>► If possible, stop the vehicle in the open air and ensure that all vehicle occupants get out.</li> <li>◉ Supporting vehicle functions may activate automatically, e.g. air-recirculation mode as part of climate control.</li> <li>► Do not continue driving.</li> <li>► If smoke is present, leave the danger zone and call the fire service immediately.</li> <li>► Consult a qualified specialist workshop even if there are no external signs of a fire.</li> </ul> </li> </ul>
 <p>48 V battery See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The 48 V on-board electrical system has function restrictions. Comfort functions may be restricted.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop immediately.</li> </ul> </li> </ul>
 <p>Please wait 48 V battery charging</p>	<ul style="list-style-type: none"> <li>* The 48 V battery is discharged. You have switched on the vehicle while the 12 V battery was being charged with a suitable charger or while another vehicle was providing starting assistance. The discharged 48 V battery is charged automatically via the voltage converter. After a few minutes, the <b>Possible to start the vehicle again</b> display message will be shown on the driver's display.               <ul style="list-style-type: none"> <li>► Start the vehicle.</li> </ul> </li> </ul>



Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Drive the vehicle for a while to charge the 12 V battery and the 48 V battery after disconnecting the charger from the vehicle.</li> </ul> <p>If the <b>Possible to start the vehicle again</b> display message does not appear after a few minutes:</p> <ul style="list-style-type: none"> <li>► Try to start the vehicle.</li> <li>► If the vehicle does not start, consult a qualified specialist workshop.</li> </ul>
<p><b>Cannot start vehicle</b> See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The state of charge of the 48 V battery is too low. You can no longer start the vehicle.</li> <li>► Switch off electrical consumers that are not required.</li> <li>► Connect a suitable charger approved for Mercedes-Benz with sufficient charge output to the jump-start connection point of the 12 V battery (→ page 496). The 48 V battery is charged via the voltage converter in the vehicle.</li> </ul>
<p><b>Possible to start the vehicle again</b></p>	<ul style="list-style-type: none"> <li>* The 48 V battery has been charged automatically via the voltage converter.</li> <li>► Start the vehicle and drive for a while to charge the 12 V battery and the 48 V battery.</li> </ul>

### Tyre pressure monitor


Display messages	Possible causes/consequences and ► Solutions
<p><b>Tyre press. monitor currently unavailable</b></p>	<ul style="list-style-type: none"> <li>* There is interference from a powerful radio signal source As a result, no signals from the tyre pressure sensors are being received. The tyre pressure monitoring system is temporarily unavailable. The tyre pressure monitoring system will restart automatically as soon as the cause has been rectified.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
<p>Tyre press. monitor inoperative</p>	<p>► Drive on</p> <p>* The tyre pressure monitoring system is malfunctioning.</p> <p><b>⚠ WARNING</b> There is a risk of an accident if the tyre pressure monitoring system is malfunctioning</p> <p>The tyre pressure monitoring system cannot issue a warning if there is pressure loss in one or more of the tyres.</p> <p>Tyres with insufficient tyre pressure may impair the driving characteristics as well as steering and braking.</p> <p>► Have the tyre pressure monitoring system checked at a qualified specialist workshop.</p> <p>► Consult a qualified specialist workshop.</p>
<p>Tyre pressure monitor inoperative No tyre pressure sensors</p>	<p>* The wheels fitted do not have suitable tyre pressure sensors. The tyre pressure monitoring system is deactivated.</p> <p>► Fit wheels with suitable tyre pressure sensors.</p>
<p> Wheel sensor(s) missing</p>	<p>* There is no signal from the tyre pressure sensor in at least one wheel. No pressure value is displayed for the affected tyre.</p> <p>► Have the faulty tyre pressure sensor replaced at a qualified specialist workshop.</p>

Display messages	Possible causes/consequences and ► Solutions
 <p>Check tyre(s)</p>	<p>* The tyre pressure in one or more tyres has dropped significantly. The wheel position is displayed. A warning tone will also sound.</p> <div><p><b>▲ WARNING</b> Risk of an accident due to insufficient tyre pressure</p></div> <ul style="list-style-type: none"><li>• The tyres can burst.</li><li>• The tyres can wear excessively and/or unevenly.</li><li>• The driving characteristics as well as the steering and braking may be greatly impaired.</li></ul> <p>You could then lose control of the vehicle.</p> <ul style="list-style-type: none"><li>► Observe the recommended tyre pressures.</li><li>► Adjust the tyre pressure if necessary.</li></ul> <ul style="list-style-type: none"><li>► Stop the vehicle in accordance with the traffic conditions.</li><li>► Check the tyre pressure (→ page 510) and the tyres.</li></ul>
 <p>Rectify tyre pressure</p>	<p>* The tyre pressure is too low in at least one of the tyres, or the difference in tyre pressure between the individual wheels is too great.</p> <ul style="list-style-type: none"><li>► Check the tyre pressure and add air, if necessary.</li><li>► When the tyre pressure is correct, restart the tyre pressure monitor (→ page 513).</li></ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Warning tyre malfunction</p>	<p>* The pressure in one or more tyres has dropped suddenly. The wheel position is displayed.</p> <div style="background-color: #cccccc; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of an accident from driving with a flat tyre</p> </div> <ul style="list-style-type: none"> <li>• The tyres can overheat and be damaged.</li> <li>• The driving characteristics as well as the steering and braking characteristics may be greatly impaired.</li> </ul> <p>You could then lose control of the vehicle.</p> <ul style="list-style-type: none"> <li>► Do not drive with a flat tyre.</li> <li>► Do not exceed the maximum permissible driving distance in emergency mode and the maximum permissible speed with a flat MOExtended tyre.</li> <li>► Observe the notes on flat tyres.</li> </ul> <p>Notes on flat tyres (→ page 487).</p> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions.</li> <li>► Check the tyres.</li> </ul>
 <p>Tyre(s) overheated</p>	<p>* At least one tyre is overheating. The affected tyres are displayed in red. At temperatures close to the limit value, the tyres are displayed in yellow.</p> <div style="background-color: #cccccc; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of an accident from driving with overheated tyres</p> </div> <div style="background-color: #ffff00; padding: 5px;"> <p>Overheated tyres can burst.</p> </div>

## 722 Display messages and warning/indicator lamps




Display messages	Possible causes/consequences and ► Solutions
	<p>► Reduce speed so that the tyres cool down.</p> <p>► Reduce your speed so that the tyres cool down.</p>
 <p>Reduce speed</p>	<p>* At least one tyre is overheating. The affected tyres are displayed in red. At temperatures close to the limit value, the tyres are displayed in yellow.</p> <p><b>▲ WARNING</b> Risk of an accident from driving with overheated tyres</p> <p>Overheated tyres can burst.</p> <p>► Reduce speed so that the tyres cool down.</p> <p>► Reduce your speed so that the tyres cool down.</p>

## Tyre pressure loss warning system




Display messages	Possible causes/consequences and ► Solutions
Tyre pressure Check tyres	<p>* The tyre pressure loss warning system has detected a significant loss of pressure.</p> <p><b>▲ WARNING</b> Risk of an accident due to insufficient tyre pressure</p> <ul style="list-style-type: none"><li>• The tyres can burst.</li></ul>



Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>• The tyres can wear excessively and/or unevenly.</li> <li>• The driving characteristics as well as the steering and braking may be greatly impaired.</li> </ul> <p>You could then lose control of the vehicle.</p> <ul style="list-style-type: none"> <li>► Observe the recommended tyre pressures.</li> <li>► Adjust the tyre pressure if necessary.</li> </ul> <ul style="list-style-type: none"> <li>► Stop the vehicle in accordance with the traffic conditions.</li> <li>► Check the tyre pressure (→ page 510) and the tyres.</li> <li>► When the tyre pressure is correct, restart the tyre pressure loss warning system (→ page 514).</li> </ul>
Check tyre pressure, then restart Run Flat Indicator	<ul style="list-style-type: none"> <li>* The tyre pressure loss warning system generated a display message and has not been restarted since.</li> <li>► When the tyre pressure is correct, restart the tyre pressure loss warning system (→ page 514).</li> </ul>
Run Flat Indicator inoperative	<ul style="list-style-type: none"> <li>* The tyre pressure loss warning system is malfunctioning.</li> <li>► Consult a qualified specialist workshop.</li> </ul>

## Exhaust gas aftertreatment




Display messages	Possible causes/consequences and ► Solutions
 <p>Refill AdBlue See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The AdBlue® level has fallen into the reserve range.           <ul style="list-style-type: none"> <li>► Top up AdBlue® immediately (→ page 207).</li> </ul> </li> </ul>
 <p>Top up AdBlue Emergency op. in XXX km See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The low AdBlue® level will lead to limited performance after the remaining distance displayed has been covered.           <ul style="list-style-type: none"> <li>► Top up with AdBlue® immediately (→ page 207).</li> </ul> </li> </ul>
 <p>Top up AdBlue XX,X l Emerg. op.: max. XXX km/h Start not poss. in XXX km</p>	<ul style="list-style-type: none"> <li>* The low AdBlue® level will lead to limited performance from the speed displayed. After the remaining distance displayed has been covered, it will no longer be possible to start the vehicle.           <ul style="list-style-type: none"> <li>► Top up with at least the indicated amount of AdBlue® (→ page 207).</li> </ul> </li> </ul>






Display messages	Possible causes/consequences and ► Solutions
 <p>Top up AdBlue XX,X l Switch vehicle on, wait 60 sec. or engine start not poss.</p>	<ul style="list-style-type: none"> <li>* The AdBlue® tank is empty. You can no longer start the vehicle.               <ul style="list-style-type: none"> <li>► Top up with at least the indicated amount of AdBlue® (→ page 207).</li> <li>► Switch on the vehicle and wait for approximately 60 seconds.</li> <li>► Start the vehicle.</li> </ul> </li> </ul>
 <p>AdBlue system fault See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The AdBlue® system is malfunctioning.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop immediately.</li> </ul> </li> </ul>
 <p>AdBlue system malfunction Emergency op. in XXX km See Owner's Manual</p>	<ul style="list-style-type: none"> <li>* The AdBlue® system is malfunctioning. Performance will be reduced once the remaining distance displayed has been covered.               <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop immediately.</li> </ul> </li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>AdBlue system malfunction Emerg. op.: max. XXX km/h Start not poss. in XXX km</p>	<ul style="list-style-type: none"><li>* Power restriction due to the AdBlue® system fault. After the distance displayed has been covered, it will no longer be possible to start the vehicle.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop immediately.</li></ul></li></ul>
 <p>AdBlue system fault Engine start not possible</p>	<ul style="list-style-type: none"><li>* The AdBlue® system is malfunctioning. You can no longer start the vehicle.<ul style="list-style-type: none"><li>► Consult a qualified specialist workshop immediately.</li></ul></li></ul>

## Engine oil

Display messages	Possible causes/consequences and ► Solutions
 <p>Add 1 litre engine oil when next refuelling</p>	<p>* The engine oil level has dropped to the minimum level.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>!</b> <b>NOTE</b> Engine damage caused by driving with insufficient engine oil</p> <p>► Avoid long journeys with insufficient engine oil.</p> </div> <p>► When next refuelling, add 1 litre of engine oil (→ page 473).</p> <p>Notes on engine oil (→ page 637).</p>
 <p>Engine oil level Reduce oil level</p>	<p>* The engine oil level is too high.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>!</b> <b>NOTE</b> Engine damage caused by driving with excess engine oil</p> <p>► Avoid long journeys with excess engine oil.</p> </div> <p>► Consult a qualified specialist workshop immediately and have the engine oil level reduced.</p>
 <p>Engine oil level Stop Switch off the vehicle</p>	<p>* The engine oil level is too low.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>!</b> <b>NOTE</b> Engine damage caused by driving with insufficient engine oil</p> <p>► Avoid long journeys with insufficient engine oil.</p> </div> <p>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</p>

Display messages	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Switch off the vehicle.</li> <li>► Add 1 l of engine oil (→ page 473).</li> <li>► Check the engine oil level.</li> </ul> <p>Notes on engine oil (→ page 637).</p>
 <p>Engine oil pressure Stop Switch off the vehicle</p>	<p>* The oil pressure is too low.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>!</b> <b>NOTE</b> Engine damage caused by driving with insufficient oil pressure</p> <p>► Avoid driving with insufficient oil pressure.</p> </div> <ul style="list-style-type: none"> <li>► Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>► Switch off the vehicle.</li> <li>► Consult a qualified specialist workshop.</li> </ul>
 <p>Engine oil level cannot be measured</p>	<p>* The electrical connection to the oil level sensor has been interrupted or the oil level sensor is faulty.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul>

Display messages	Possible causes/consequences and ► Solutions
 <p>Engine oil Quality loss Oil change required</p>	<ul style="list-style-type: none"> <li>* <b>Vehicles with a diesel engine:</b> the engine oil quality is no longer sufficient.</li> <li>► Visit a qualified specialist workshop and have the oil changed.</li> </ul>

## Warning and indicator lamps

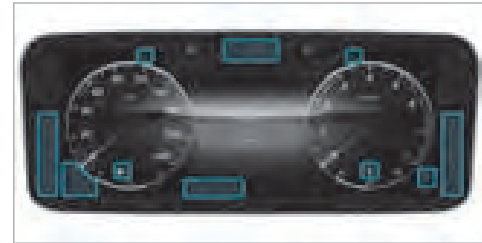
### Overview of indicator and warning lamps

Some systems will perform a self-test when the vehicle is switched on. Some indicator and warning lamps may briefly light up or flash. This behaviour is non-critical. These indicator and warning lamps indicate a malfunction only if they light up or flash after the vehicle has been started or during a journey.

Driver's display




Driver's display with driver camera




### Indicator and warning lamps


Occupant safety

 Restraint system (→ page 731)

## 730 Display messages and warning/indicator lamps


 Seat belt (→ page 731)

 Occupant presence reminder (white)  
(→ page 731)

 Occupant presence reminder (yellow)  
(→ page 731)

### Vehicle

 Trailer hitch (→ page 733)

 Power steering (yellow) (→ page 733)


 Power steering (red) (→ page 733)


 Rear axle steering (yellow) (→ page 733)


 Rear axle steering (red) (→ page 733)

### Engine


 Coolant temperature (→ page 735)

 Engine diagnostics (→ page 735)


 Vehicles with a petrol engine: engine operating temperature (→ page 735)


 Vehicles with a diesel engine: preglow

 Electrical fault (→ page 735)


 Reserve fuel with fuel filler flap location indicator (→ page 735)

### Brakes


 Electric parking brake (yellow)  
(→ page 739)


 Electric parking brake (red) (→ page 739)

 Brakes (yellow) (→ page 739)

 Brakes (red) (→ page 739)

### Driving and driving safety systems

 ABS (→ page 741)

 ESP® (→ page 741)

 ESP® OFF (→ page 741)

 ATTENTION ASSIST (→ page 741)

 Traffic Sign Assist (→ page 741)

 Distance warning (→ page 741)


 Active Brake Assist (→ page 741)

 Active Brake Assist (→ page 741)


 Active Brake Assist (→ page 741)

 AIRMATIC (→ page 741)


### Mercedes-Benz emergency call system


 Mercedes-Benz emergency call system  
(→ page 746)


### Tyre pressure monitoring system

 Tyre pressure monitoring system  
(→ page 747)

### Exterior lighting

 Parking lights (→ page 147)

 Low beam (→ page 147)

 High beam (→ page 149)

 Turn signal lights (→ page 149)

 Rear fog light (→ page 147)



### Symbols on the central display




 Drive Away Assist (→ page 285)

 Rear cross traffic warning (→ page 286)

 Manoeuvring brake function (→ page 287)



## Occupant safety




Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Restraint system warning lamp</p>	<p>* The restraint system red warning lamp is lit while the vehicle is on. The restraint system is malfunctioning (→ page 40).</p> <div style="border: 1px solid gray; padding: 5px;"> <p>▲ <b>WARNING</b> Risk of injury due to malfunctions in the restraint system</p> <p style="background-color: yellow;">Components in the restraint system may be activated unintentionally or not deploy as intended in an accident.</p> <p>▶ Have the restraint system checked and repaired immediately at a qualified specialist workshop.</p> </div> <p>▶ Drive on carefully.</p> <p>▶ Note the messages on the driver's display.</p> <p>▶ Consult a qualified specialist workshop immediately.</p>
 <p>Seat belt warning lamp flashes</p>	<p>* The red seat belt warning lamp flashes and an intermittent warning tone sounds. The driver or front passenger has not fastened their seat belt while the vehicle is in motion.</p> <p>▶ Fasten your seat belt (→ page 43).</p> <p>There are objects on the front passenger seat.</p> <p>▶ Remove the objects from the front passenger seat.</p>

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Seat belt warning lamp lights up</p>	<p>* The red seat belt warning lamp lights up once the vehicle has started.</p> <p>In addition, an intermittent warning tone may sound.</p> <p>The red seat belt warning lamp reminds the driver and front passenger to fasten their seat belts.</p> <p>► Fasten your seat belt (→ page 43).</p> <p>If you have placed objects on the front passenger seat, the red seat belt warning lamp may remain lit.</p>
 <p>Occupant presence reminder warning lamp (white)</p>	<p>* The white occupant presence reminder warning lamp is lit.</p> <p>The occupant presence reminder is deactivated.</p>
 <p>Occupant presence reminder warning lamp (yellow)</p>	<p>* The yellow occupant presence reminder warning lamp is lit.</p> <p>The occupant presence reminder is malfunctioning</p> <p>► Note the messages on the driver's display.</p>




## Vehicle

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Trailer hitch warning lamp</p>	<p>* The red trailer hitch warning lamp is lit. The trailer hitch is not operational or is swivelling.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>▲ WARNING</b> Risk of an accident if the ball neck is not locked</p> <p>The trailer may become detached.</p> <ul style="list-style-type: none"> <li>▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving.</li> <li>▶ Uncouple the trailer and secure it against rolling away.</li> <li>▶ Initiate a new swivelling procedure and do not re-couple the trailer until the display message disappears.</li> </ul> </div> <p>▶ Note the messages on the driver's display.</p> <p>If the trailer hitch is swivelling:</p> <p>▶ Wait until the ball neck has reached the operational position.</p>
 <p>Power steering warning lamp (yellow)</p>	<p>* The yellow power steering warning lamp is lit while the vehicle is running. The power assistance or the steering itself is malfunctioning.</p> <p>▶ Note the messages on the driver's display.</p>




Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Power steering warning lamp (red)</p>	<p>* The red power steering warning lamp is lit while the vehicle is running. The power assistance or the steering itself is malfunctioning.</p> <div><p><b>▲ WARNING</b> Risk of accident if steering capability is impaired</p><p>If the steering does not function as intended, the vehicle's operating safety is jeopardised.</p><ul style="list-style-type: none"><li>► Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances.</li><li>► Consult a qualified specialist workshop.</li></ul></div> <p>► Note the messages on the driver's display.</p>
 <p>Rear axle steering warning lamp (yellow)</p>	<p>* The yellow rear axle steering warning lamp is lit while the vehicle is running. The rear axle steering is malfunctioning.</p> <p>► Note the messages on the driver's display.</p>
 <p>Rear axle steering warning lamp (red)</p>	<p>* The red rear axle steering warning lamp is lit while the vehicle is running. The rear axle steering is malfunctioning.</p> <div><p><b>▲ WARNING</b> Risk of accident if steering capability is impaired</p><p>If the steering does not function as intended, the vehicle's operating safety is jeopardised.</p></div>



Warning/indicator lamp	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances.</li> <li>► Consult a qualified specialist workshop.</li> </ul> <p>► Note the messages on the driver's display.</p>

## Engine




Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Coolant warning lamp (red)</p>	<p>* The red coolant warning lamp is lit while the engine is running.</p> <p>Possible causes:</p> <ul style="list-style-type: none"> <li>• The temperature sensor is malfunctioning</li> <li>• The coolant level is too low</li> <li>• The air supply to the radiator is obstructed</li> <li>• The radiator fan is faulty</li> <li>• The engine coolant pump is faulty</li> </ul> <p>If there is an additional warning tone, the coolant temperature has exceeded 120°C.</p>


Warning/indicator lamp	Possible causes/consequences and ► Solutions
	<p><b>▲ WARNING</b> Risk of burns when opening the bonnet</p> <p>If you open the bonnet in the event of an overheated engine or fire in the engine compartment, the following situations may occur:</p> <ul style="list-style-type: none"><li>• You may come into contact with hot gases.</li><li>• You may come into contact with other escaping hot operating fluids.</li></ul> <p>► Before opening the bonnet, allow the engine to cool down.</p> <p>► In the event of a fire in the engine compartment, keep the bonnet closed and call the fire service.</p> <p>► Stop immediately in accordance with the traffic conditions and switch off the vehicle. Do not continue driving.</p> <p>► Note the messages on the driver's display.</p> <p><b>If the coolant temperature display is at the lower end of the temperature scale:</b></p> <p>► Consult a qualified specialist workshop.</p> <p><b>If the coolant temperature display is at the upper end of the temperature scale:</b></p> <ul style="list-style-type: none"><li>► Exit the vehicle and keep a safe distance from it until the engine has cooled down.</li><li>► Check the coolant level (→ page 475).</li><li>► Make sure that the air supply to the radiator is not obstructed.</li><li>► Avoiding high loads on the engine, drive to the nearest qualified specialist workshop. In doing so, ensure that the coolant temperature display remains below 120°C.</li></ul>

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Coolant warning lamp (yellow)</p>	<p>* The yellow coolant warning lamp is lit while the engine is running.</p> <p>Possible causes:</p> <ul style="list-style-type: none"> <li>• The temperature sensor is malfunctioning</li> <li>• The charge air, transmission oil or battery cooling is faulty</li> <li>• The radiator shutters are blocked or defective</li> </ul> <p>► Avoiding high loads on the engine, drive to the nearest qualified specialist workshop.</p>
 <p>Engine diagnostics warning lamp</p>	<p>* The yellow engine diagnostics warning lamp is lit while the engine is running.</p> <p>A malfunction has occurred in the engine, the exhaust system or the fuel system.</p> <p>The emissions limit value may have been exceeded and the engine may be running in emergency operation mode.</p> <p>► Have the vehicle checked as soon as possible at a qualified specialist workshop.</p> <p><b>Vehicles with a diesel engine:</b> the fuel tank may have been run dry.</p> <p>► Start the engine three to four times after refuelling.</p> <p>If the yellow engine diagnosis warning lamp goes out, emergency operation mode is cancelled. The vehicle need not be checked.</p>
 <p>Electrical fault warning lamp</p>	<p>* The red electrical fault warning lamp is lit.</p> <p>There is a fault in the electrics.</p> <p>► Note the messages on the driver's display.</p>

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Engine operating temperature warning lamp</p>	<p>* <b>Vehicles with a petrol engine:</b> after a cold start, the blue engine operating temperature warning lamp is on. Engine output and engine torque are reduced.</p> <p>► Take this into consideration in your driving style.</p>
 <p>Fuel reserve warning lamp lights up</p>	<p>* The yellow fuel reserve warning lamp lights up while the engine is running. The fuel supply has dropped into the reserve range.</p> <p>► Refuel.</p>

## Brakes


Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Electric parking brake indicator lamp (red)</p>  <p>Electric parking brake indicator lamp (yellow)</p>	<p>* The red electric parking brake indicator lamp flashes or is lit. The yellow electric parking brake indicator lamp is also lit in the event of a malfunction.</p> <p>► Note the messages on the driver's display.</p>
 <p>Brakes warning lamp (yellow)</p>	<p>* The yellow brakes warning lamp is lit while the vehicle is running.</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <p><b>⚠ WARNING</b> Risk of an accident due to a brake system malfunction</p> <p>If the brake system is malfunctioning, braking characteristics may be impaired.</p> <p>► Drive on carefully.</p> <p>► Have the brake system checked immediately at a qualified specialist workshop.</p> </div> <p>The Hill Start Assist may be malfunctioning.</p> <p>► Adjust your speed and drive on carefully, leaving a suitable distance to the vehicle in front.</p>



Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Brakes warning lamp (red)</p>	<ul style="list-style-type: none"> <li>► If the driver's display shows a display message, observe it.</li> <li>► Consult a qualified specialist workshop.</li> </ul> <p>* The red brakes warning lamp is lit while the vehicle is running.</p> <p>Possible causes:</p> <ul style="list-style-type: none"> <li>• The brake force boosting is malfunctioning and the braking characteristics may be affected.</li> <li>• There is insufficient brake fluid in the brake fluid reservoir.</li> </ul> <ul style="list-style-type: none"> <li>► Note the messages on the driver's display.</li> </ul> <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>▲ WARNING</b> Risk of accident and injury if brake force boosting is malfunctioning</p> </div> <p>If brake force boosting is malfunctioning, increased brake pedal force may be necessary for braking. The braking characteristics may be impaired. The braking distance can increase in emergency braking situations.</p> <ul style="list-style-type: none"> <li>► Stop in a safe location immediately. Do not continue driving!</li> <li>► Consult a qualified specialist workshop.</li> </ul> <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>▲ WARNING</b> Risk of an accident due to low brake fluid level</p> </div> <p>If the brake fluid level is too low, the braking effect and the braking characteristics may be impaired.</p> <ul style="list-style-type: none"> <li>► Stop the vehicle as soon as possible, paying attention to road and traffic conditions. Do not continue driving.</li> <li>► Consult a qualified specialist workshop.</li> </ul>








Warning/indicator lamp	Possible causes/consequences and ► Solutions
	<ul style="list-style-type: none"> <li>► Do not top up the brake fluid.</li> </ul>




## Driving and driving safety systems


Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>ABS warning lamp</p>	<p>* The yellow ABS warning lamp is lit while the vehicle is running. ABS is malfunctioning.</p> <p>If an additional warning tone sounds, EBD is malfunctioning.</p> <p>Other driving systems and driving safety systems may also be malfunctioning.</p> <ul style="list-style-type: none"> <li>► Note the messages on the driver's display.</li> </ul> <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>⚠ WARNING</b> There is a risk of skidding if EBD or ABS is malfunctioning</p> </div> <div style="background-color: #ffff00; padding: 5px;"> <p>The wheels may lock during braking.</p> </div> <div style="background-color: #ffff00; padding: 5px;"> <p>The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off.</p> </div> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have the brake system checked immediately at a qualified specialist workshop.</li> </ul> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> </ul>

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>ESP® warning lamp flashes</p>	<ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul> <p>* The yellow ESP® warning lamp flashes while the vehicle is in motion. One or more wheels have reached their grip limit (→ page 218).</p> <ul style="list-style-type: none"> <li>► Adapt your driving style to suit the road and weather conditions.</li> </ul>
 <p>ESP® warning lamp lights up</p>	<p>* The yellow ESP® warning lamp is lit while the vehicle is running. ESP® is malfunctioning.</p> <p>Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning.</p> <ul style="list-style-type: none"> <li>► Note the messages on the driver's display.</li> </ul> <div style="background-color: #f0f0f0; padding: 5px;"> <p><b>⚠ WARNING</b> Risk of skidding if ESP® is malfunctioning</p> </div> <p>If ESP® is malfunctioning, ESP® cannot carry out vehicle stabilisation. In addition, other driving safety systems are switched off.</p> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Have ESP® checked at a qualified specialist workshop.</li> </ul> <ul style="list-style-type: none"> <li>► Drive on carefully.</li> <li>► Consult a qualified specialist workshop immediately.</li> </ul>

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>ESP® OFF warning lamp</p>	<p>* The yellow ESP® OFF warning lamp is lit while the vehicle is running. ESP® is deactivated.</p> <p>Other driving systems and driving safety systems may also be inoperative.</p> <div style="background-color: #cccccc; padding: 5px;"> <p>▲ <b>WARNING</b> Risk of skidding when driving with ESP® deactivated</p> </div> <div style="background-color: #ffff00; padding: 5px;"> <p>ESP® does not act to stabilise the vehicle. The availability of further driving safety systems is also limited.</p> </div> <ul style="list-style-type: none"> <li>▶ Drive on carefully.</li> <li>▶ Deactivate ESP® only for as long as the situation requires.</li> </ul> <p>If ESP® cannot be activated, ESP® is malfunctioning.</p> <ul style="list-style-type: none"> <li>▶ Have ESP® checked immediately at a qualified specialist workshop.</li> </ul> <p>► Observe the notes on deactivating ESP® (→ page 218).</p>
 <p>ATTENTION ASSIST warning lamp</p>	<p>* The ATTENTION ASSIST warning lamp is lit. ATTENTION ASSIST is malfunctioning.</p> <ul style="list-style-type: none"> <li>► Consult a qualified specialist workshop.</li> </ul>


Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Warning lamp for distance warning</p>	<p>* The red distance warning lamp lights up while the vehicle is in motion. The distance to the vehicle in front is too small for the speed selected.</p> <p>If there is an additional warning tone, you are approaching an obstacle at too high a speed.</p> <ul style="list-style-type: none"> <li>► Be prepared to brake immediately.</li> <li>► Increase the distance.</li> </ul> <p>Function of Active Brake Assist (→ page 243).</p>
 <p>Active Brake Assist warning lamp</p>	<p>* The Active Brake Assist warning lamp is on. Due to dirty sensors or a malfunction, the system is not available or the range of functions is restricted.</p> <ul style="list-style-type: none"> <li>► Note the messages on the driver's display.</li> </ul>
 <p>Active Brake Assist warning lamp</p>	<p>* The Active Brake Assist warning lamp is on. The system is switched off or the range of functions has been automatically restricted. This may be the case if the driver is not wearing a seat belt or another driving system has been activated.</p> <ul style="list-style-type: none"> <li>► Observe the notes on Active Brake Assist (→ page 243).</li> </ul>

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Active Brake Assist warning lamp</p>	<p>* The Active Brake Assist warning lamp is on. After you drive off, the system's range of functions will be restricted due to the teach-in process. Depending on the ambient conditions, the teach-in process may take a few minutes.</p> <p>► Observe the notes on Active Brake Assist (→ page 243).</p>
 <p>Suspension warning lamp (yellow)</p>	<p>* The yellow AIRMATIC warning lamp is lit. A fault has occurred in AIRMATIC.</p> <p>► Note the messages on the driver's display.</p>
 <p>Suspension warning lamp (red)</p>	<p>* The red AIRMATIC warning lamp is lit. A fault has occurred in AIRMATIC.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>!</b> <b>NOTE</b> The vehicle's driving characteristics will have changed significantly.</p> <p>► Consult a qualified specialist workshop.</p> </div> <p>► Note the messages on the driver's display.</p> <p>► Consult a qualified specialist workshop.</p>



Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Traffic Sign Assist warning lamp</p>	<p>* The Traffic Sign Assist warning lamp is lit. Traffic Sign Assist is malfunctioning.</p> <p>► Note the messages on the driver's display.</p>

### Mercedes-Benz emergency call system

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Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Mercedes-Benz emergency call system warning lamp</p>	<p>*The Mercedes-Benz emergency call system is malfunctioning. The Mercedes me connect system is also malfunctioning.</p> <p>► Consult a qualified specialist workshop.</p>

## Tyre pressure monitor

Warning/indicator lamp	Possible causes/consequences and ► Solutions
 <p>Tyre pressure monitoring system warning lamp flashes</p>	<p>*The yellow tyre pressure monitor warning lamp (pressure loss/malfunction) flashes for approximately one minute and then remains lit. The tyre pressure monitoring system is malfunctioning.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>▲ WARNING</b> There is a risk of an accident if the tyre pressure monitoring system is malfunctioning</p> <p>The tyre pressure monitoring system cannot issue a warning if there is pressure loss in one or more of the tyres.</p> <p>Tyres with insufficient tyre pressure may impair the driving characteristics as well as steering and braking.</p> <p>► Have the tyre pressure monitoring system checked at a qualified specialist workshop.</p> </div> <p>► Consult a qualified specialist workshop.</p>
 <p>Tyre pressure monitoring system warning lamp lights up</p>	<p>* The yellow tyre pressure monitoring system warning lamp (pressure loss/malfunction) is lit. The tyre pressure monitoring system has detected tyre pressure loss in at least one of the tyres.</p> <div style="border: 1px solid gray; padding: 5px;"> <p><b>▲ WARNING</b> Risk of an accident due to insufficient tyre pressure</p> <ul style="list-style-type: none"> <li>• The tyres can burst.</li> <li>• The tyres can wear excessively and/or unevenly.</li> <li>• The driving characteristics as well as the steering and braking may be greatly impaired.</li> </ul> </div> <p>You could then lose control of the vehicle.</p>

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	<ul style="list-style-type: none"><li>▶ Observe the recommended tyre pressures.</li><li>▶ Adjust the tyre pressure if necessary.</li></ul> <ul style="list-style-type: none"><li>▶ Stop the vehicle in accordance with the traffic conditions.</li><li>▶ Check the tyre pressure and the tyres.</li></ul>



## 1, 2, 3 ...

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














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

































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


































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




































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


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## Publication details

Germany

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Mercedes-Benz AG

Mercedesstraße 120

70372 Stuttgart

As at 21.04.22



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