

## Overview of the front passenger display

**⚠ WARNING** Risk of accident and injury due to distraction when the driver is looking at the front passenger display

If you look at the front passenger display while driving, you may be distracted from the traffic. This could also cause you to lose control of the vehicle. The front passenger display is intended exclusively for the front passenger.


- ▶ Keep the actual traffic situation constantly in view.
- ▶ Avoid looking at the front passenger display while driving.

The front passenger display is an additional touchscreen specifically for the front passenger.

Requirements for displaying menu content on the front passenger display while driving:

- The front passenger is sitting on the front passenger seat.
- The front passenger display is switched on and is not showing a digital decorative image.

- The multifunction interior camera is switched on (→ page 310).

The  symbol is shown in the status line of the central display.

- The multifunction interior camera recognises the driver's head and direction of vision.

The front passenger display shows content from the MBUX multimedia system independently of the central display. Depending on the application, operation is independent of the driver. Depending on the market, extended content, e.g. playback of media content, is also available while driving.

**i** When the vehicle is parked (transmission in position **P**), the front passenger can use the front passenger display.


**i** If no front passenger is present, a digital decorative image is shown on the front passenger display (→ page 311).

In certain markets, you can select from one of the pre-installed decorative images. You also have the option of uploading a personal image via the "Personalisation Remote Configuration" Digital Extra. This personal image is stored exclusively under your user profile.

## Camera-based locking concept

The multifunction interior camera recognises the driver's head and the direction of vision towards the front passenger display. If it detects that the driver is looking at the front passenger display for too long while driving, the front passenger display is hidden. This content is thus no longer visible to the driver and does not distract them during driving. A symbol and an info text appear in the centre of the front passenger display.

Requirements for the function:

- The multifunction interior camera is switched on.  
The  symbol is shown in the status line of the central display.  
If these conditions are not fulfilled, the display brightness is permanently reduced for all content that is subject to blocking.
- The multifunction interior camera is functional and not covered.



The front passenger display shows the contents again in the usual way under the following conditions:

- The driver looks forward again.
- No blocked content is shown on the front passenger display.


### Anti-theft protection

This device is equipped with technical provisions to protect it against theft. More detailed information about anti-theft protection can be obtained at a qualified specialist workshop.

## Zero layer

### Function of the zero layer

- ① Your software can be upgraded to a more current version at a later date.

The zero layer provides you with dynamic content from the MBUX multimedia system and is used to quickly access and control the applications you use. When you select  on the central display, the digital map with the applications appears in the lower display area.

The applications can be hidden from the display area and shown again.

The zero layer provides the following modules and applications:

- Navigation module

In the expanded view you can, for example, have the route overview displayed, switch on the display of traffic information and make settings for the [View](#) (map), [Messages & tones](#) and the [Route](#).

- Entertainment (media, radio) and telephone

When the lower display area is shown, the entertainment sources are always displayed.

A mobile phone must be connected to the MBUX multimedia system for the phone to be displayed.

- Suggestions

Suggestions are displayed on the lower display area based on context and your user behaviour. Here are a few examples:

- Latest calls
- Message programmes

- Vehicle functions

- Online voice applications

- Personalised routines

The learning function of the system recognises your typical operating sequences and offers to perform these automatically for you as a routine.

Modules and applications are first shown in a reduced view. By tapping on them, you can operate them or open the associated menu (expanded view).

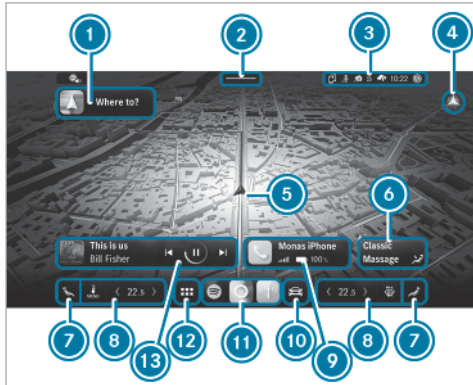
A long press on a suggestion opens a context menu in which further functions are available.

The learning function can be switched on and off for the options .



## Overview of the zero layer

Digital map and user-specific applications (example)



- ① Navigation module (reduced view)  
Tapping opens destination entry or the route monitor (route guidance active)

② Calls up the Notifications Centre and makes settings for the MBUX Virtual Assistant and apps: pull the bar down

③ Status line, e.g. calls up user profile settings  
④ MBUX Virtual Assistant, activation using the "Hey Mercedes" command

⑤ Current vehicle position

⑥ Suggestion

⑦ Calls up seat adjustment (driver and front passenger side)

⑧ Calls up the air conditioning menu  
(→ page 155)

Increases and decreases temperature (driver and front passenger side)

Demists the windscreen or switches on pre-entry climate control

⑨ Module for telephone

Requirement: the mobile phone is connected to the MBUX multimedia system.

⑩ Calls up vehicle settings in the Control Centre

⑪ The three most recently accessed apps

⑫ Shows all apps

⑬ Module for entertainment

## Information about entertainment sources

You can operate the applications in the reduced view or in the menu (expanded view) (→ page 290).

Examples:

- Control a media source, e.g. pause/play, next track, set a station
- Select tracks from the current playlist or stations from the station list
- Select a media source

The media source must be connected to the MBUX multimedia system.

## Information about the telephone

To use the functions, the mobile phones must be connected to the MBUX multimedia system.

Requirement for suggestions: the [Calls & messages](#) option is activated in the suggestions.

Examples:

- Answer a call and call a missed call  
The missed calls are displayed for the mobile phones connected to the MBUX multimedia system.



- Display contacts and call list and call a contact
- Use voice functions
- Suggest contacts

The contacts are suggested for the mobile phones connected to the MBUX multimedia system. No contacts are suggested for the mobile phones that are linked to another user profile.

- Write messages to contacts (suggestion)
- Connect a device via the device manager (suggestion)

### Suggestions for activating recognised routines

Requirement: the [Learning & suggestions](#) option is activated in the suggestions.

Routines are actions that run automatically under certain conditions. An example of a routine: whenever you drive to work in the morning (condition), the MBUX multimedia system should set a certain massage programme (action). Routines can also perform different actions.

Routines are loaded and started by MBUX Virtual Assistant ④.

## ■ Calling up and operating the zero layer

### Calling up the zero layer

When the vehicle has been switched on, the zero layer is displayed with the digital map. Navigation is active.

The zero layer shows the following modules and applications:

- The navigation module
- The entertainment and telephone module
- The bottom bar with the jumps to the following applications:
  - Climate control
  - Seat settings
  - Vehicle settings
  - The three most recently active apps

Provides quick access in the bottom bar. A newly started application appears in the first position and moves the other applications to the right.

- The view of all apps



- ① Index points, current and available pages

▶ **To call up all apps:** tap on in the bottom bar.

▶ **To return to the digital map:** press .

### Opening and closing the context menu for a suggestion

- ▶ Press and hold on a suggestion. The context menu opens and shows the [No longer suggest](#) option, for example.
- ▶ **To close:** swipe downwards.

### Removing a suggestion from the display area

- ▶ Swipe the suggestion upwards.



## MBUX Virtual Assistant

### ■ Useful information on the MBUX Virtual Assistant

The MBUX Virtual Assistant combines the following functions:

- Routines (→ page 291)
- Suggestions (→ page 293)
- Messaging (→ page 294)
- Voice control
- Configuring MBUX Virtual Assistant (→ page 302)

The MBUX Virtual Assistant appears on the display as a blue Mercedes star in the top right-hand corner.




MBUX Virtual Assistant: functional examples and visualisations

- ① Routine is activated  
☐ Stops the routine
- ② Voice control and visualisation (from left to right)
  - MBUX Virtual Assistant is ready
  - MBUX Virtual Assistant is listening (rotating star)
  - MBUX Virtual Assistant is speaking (pulsating star)
- ③ Suggestion (next to the telephone module)

The MBUX Virtual Assistant displays information as notifications (e.g. ①) or in a pop-up window.

The MBUX Virtual Assistant can be activated via the following actions:

- Saying **Hey Mercedes**
- With the  button in the control panel of the centre console

### ■ Personalised routines

#### ■ Useful information on routines

The MBUX Virtual Assistant assists you with daily routine tasks and can run them automatically. The system's learning function recognises your typical operating sequences and suggests them as a routine in recurring situations.


If the system recognises a routine, it will be suggested to you by the MBUX Virtual Assistant.

Routines are actions that run automatically under certain conditions. An example of a routine: whenever you drive to work in the morning (condition), the MBUX multimedia system should set a certain massage programme (action). Routines can also perform different actions.



Routines are available to you via three options:

- The MBUX Virtual Assistant learns and suggests routines.
- You create your own routines.
- You select predefined routines (templates).

If the learning function **Learning & suggestions** is switched on and enough data is available, the system suggests a routine on the zero layer. You can accept or reject these. In the future, when the conditions for the routine are met, you will receive a notification with a timer. After the timer has expired, the actions of the routine are executed. If you tap  in the notification, the routine is cancelled. No actions are performed. However, the routine is still activated. If the conditions for the routine are met again, you will receive a notification again.

You can create your own routines or select predefined routines via the **Routines** app.

Conditions for routines are, for example:


- When should a routine start?
  - Weekdays at 8 a.m.

- Where should a routine start?
  - Start at home, start at work, tunnel passage
- At what temperature should a routine start?
  - From 0 °C
- At which event should a routine start?
  - Incoming or outgoing call
  - Strong sunlight

You can select the following actions, for example, from categories:

- Comfort
  - Selects a massage programme
  - Setting the seat heating
  - Selecting an ENERGIZING COMFORT programme
- Climate control
  - Setting temperature (front, rear)
  - Activating or deactivating the AC function
- Entertainment and navigation
  - Selecting a radio station

- Select a media source
- Switching off navigation announcements

 The availability of the functions depends on the equipment.

## ■ Activating and starting suggested routines

### Activating routines

If a new routine is recognised, it is suggested by the MBUX Virtual Assistant. A pop-up window appears.



Select **Yes**.

In the future, when the conditions for the routine are met, a notification will be displayed to prepare you to execute the routine.

or




**To reject a routine this time:** select **Decide later**.

You can find the routine in the **Routines** app and can activate or delete it there at any time.

### Starting a routine

The routine is activated and then starts automatically.




- ▶ **To reject routine this time:** tap .  
If the conditions for the routine are met, the routine will be offered again in the future.

## ■ Creating your own routines


Multimedia system:

→  » Routines » Create routine

### Configuring conditions

- ▶ Select .
- ▶ Select the condition, e.g. **Weekdays**.
- ▶ Select further conditions if required.

### Configuring actions

- ▶ Select .
- ▶ Select the category, for example **Comfort**.
- ▶ Select the action, e.g. **Classic massage**.
- ▶ If required, select further actions also from other categories.
- ▶ Select **Continue**.
- ▶ Select a symbol and enter a name, e.g. **My first routine**.

- ▶ Select **Create routine**.  
The routine appears in the overview. When the conditions for the routine are met, a notification is displayed. The routine can be started.


 You can edit a created routine at any time.

## ■ Selecting predefined routines

Multimedia system:


→  » Routines » Templates


- ▶ Activate the desired routine.  
When the conditions for the routine are met, a notification is displayed. The routine can be started.

 Templates can be edited like your own routines.

## ■ Configuring and deleting suggestions

Multimedia system:

→  » Settings » Virt. Assistant » Suggestions

- ▶ Switch **Learning & suggestions** on/off.  
If the user profile is active and the function is switched on, personalised suggestions can be derived for activated applications.
- ▶ Select .
- ▶ Switch the options on/off individually.  
If an option is activated and enough data has been collected, the MBUX Virtual Assistant will offer you personalised suggestions based on your user behaviour. These are, for example, navigation destinations visited, phone numbers dialled as well as suggestions based on your music preferences.

### Navigation

When **Allow destination suggestions** is switched on, the vehicle makes suggestions based on your visited navigation destinations.



If **Commuter route** is switched on, the navigation automatically detects that the vehicle is on a commuter route.

### Calls & messages

Suggestions are offered for numbers dialled and messages sent.

### Comfort

The vehicle makes suggestions based on the use of your comfort functions, e.g. which massage programme should be started when.

### Entertainment

Suggestions are offered for the currently played media source. Suggestions are also made for online digital services, e.g. Spotify, TuneIn Radio and streaming services, as well as for categories, e.g. genre, artist and mood.

### Climate control

The suggestions for quick temperature adjustment in the vehicle are displayed.

### Vehicle


The suggestions for vehicle functions are displayed, e.g. for Parking Assist PARKTRONIC and for opening the boot.

### In-Car Calendar




The suggestions for the calendar are displayed in the zero layer.

### Online voice services

This option supplements the suggestions for voice control.

-  The suggestions offered depend on the equipment.

### Deleting collected suggestions

-  Select .
-  Select **Yes**.  
The suggestions are reset.

### Notifications Centre

#### ■ Useful information on notifications

The following communications are collected in the Notifications Centre:

- Communications which are generated by the vehicle or from the multimedia system.
- Communications which are received through the use of services.

The following notification types are available, for example:

- Navigable destinations and routes
- Messages (text messages)
- Calendar entries and reminders, e.g. from the In-Car Calendar  
This function is not available in all countries.
- System information, e.g. **Important software update available. Confirm to start the update.**
- Other notifications, e.g. from additional online services that can be subscribed to or emergency reports (e.g. tornado)

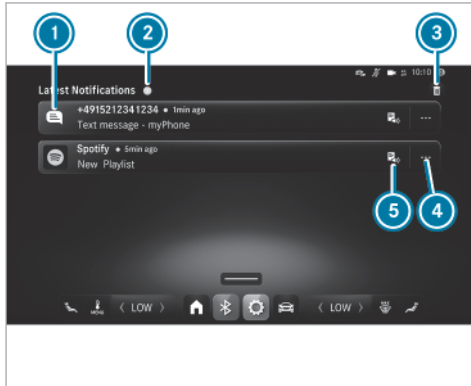
The notifications centre can be opened by drawing down the bar at the top centre of the digital map.

Depending on the style set, newly arrived notifications will be displayed with an appropriate marker.

Notifications are briefly shown as they are received. If you take no action, some of these are stored for future access in the notifications centre.



The notifications are sorted chronologically. The most recent notifications are at the top.



#### Example

- ① Notification with icon, notification type and time it was received
- ② Number of unread notifications
- ③ Deletes all notifications

- ④ Shows more actions
- ⑤ Action (read aloud)

Depending on the type of notification, up to four different actions are available. If available these are shown as symbols.

Examples of actions include:

- Reading aloud
- Placing a call
- Replying
- Calling up a web page
- Navigation

Some notifications, e.g. a navigation destination, are stored longer. Therefore, it is not necessary to carry out available actions directly upon receipt of the notifications. A route guidance can be started at a later time.

#### ■ Calling up notifications

#### Opening the Notifications Centre

- ▶ Pull the bar at the top of the digital map downwards.

or

- ▶ Select .
- ▶ Select  **Virt. Assistant.**

#### Closing the Notifications Centre



- ▶ Pull the bar at the bottom of the Notification Centre upwards.

or

- ▶ Select .

#### ■ Selecting actions for a notification


The following options are available:

- Select the action directly after a notification is received and shown.
- Select the action later after calling up in the Notifications Centre.
- ▶ Up to two actions available: select the action.
- ▶ More than two actions available: select . A menu opens.
- ▶ Select the action. The notification is still available.
- ▶ Close the actions with .




## ■ Editing notifications

### Configuring settings

- ▶ Select .
- ▶ Select **Settings**.
- ▶ Select **Virt. Assistant**.
- ▶ Select **Notification Management**.
- ▶ Select the function, e.g. **Climate control**.
- ▶ Switch the options on or off.


The following options are available depending on the service, for example:

- **Allow notifications**
- **Display in notification centre**
- **Show notifications**
- Activating or deactivating **Acoustic signals**
- **External access**

The option allows an external service access to specific data, e.g. the current vehicle position. The detailed, approved information is shown with .

If **Allow notifications** is switched off, the options cannot be selected with the exception of **External access**.

### Deleting notifications

- ▶ Drag a notification to the left on the touchscreen.
  - or
  - ▶ Select .
  - ▶ Select **Yes**.
- All messages are deleted.

### ■ Overview of voice control

#### ■ Operational safety of voice control

For your own safety, observe the following points when operating mobile communication devices and especially voice control:

- Observe the legal regulations of the country in which you are currently located.
- If voice control is used in an emergency situation, commands may be less easily recognised due to a change in voice.

- Familiarise yourself with the voice control functions before setting off.

#### **Voice control does not replace the Owner's Manual.**

The voice control responses do not reflect the full scope of information in the Owner's Manual. In addition, voice control does not issue any detailed warnings or damage information. Comprehensive information on the function and safe operation of the systems and components installed in the vehicle can be found in the Owner's Manual.

#### ■ Voice control

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

With voice control, vehicle functions and various areas of the MBUX multimedia system, e.g. navigation or telephone, can be operated by voice input. The voice control system is ready for operation around half a minute after the vehicle is switched on and can be operated from various seats (depending on the special equipment).



## ■ Conducting a dialogue


### Requirements:

- Voice activation must be switched on in the multimedia system .

### Starting a dialogue

- ▶ Say **Hey Mercedes** to activate the MBUX Voice Assistant.

or

- ▶ Press the  button on the centre console. A blue star appears in the MBUX multimedia system. The dialogue can be started.

Whole sentences from colloquial language can be used as voice commands for the dialogue with the voice control system. Voice activation can also be combined directly with a voice command, e.g. **Hey Mercedes, how warm is it outside?**

### Interrupting the dialogue

- ▶ During the dialogue say **Pause**. The dialogue is interrupted.
- ▶ Say **Hey Mercedes** to continue the dialogue.

## Changing dialogue level

- ▶ During the dialogue, say **Back**. Voice control jumps to the previous dialogue step.

### Navigating in the selection list

If a voice command does not produce a clear result, a selection list is displayed depending on the function.

- ▶ Say the line number or the content to select an entry and see further details if available.
- ▶ Say **Next page** or **Previous page** to browse the selection list.

### Calling up help

- ▶ Say **Help**. You will receive suggestions and information on voice control.

## ■ Operable voice control functions

- Telephone
- Text messages
- Navigation
- Radio and media

- Vehicle functions
- Online functions

The full range of voice control functions is only available when online voice control is activated .

## ■ Information on the language setting

You can change the language of the voice control system via the system language setting (→ page 316). If the voice control system does not support the set system language, English is selected.

## ■ Setting the voice control functions

Multimedia system:

  **» Settings » System**  
**» Voice assistant**


## Switching voice activation on or off

- ① In vehicles with a driver camera or MBUX Interior Assistant, voice control can be switched on or off in the Intelligent Assistant menu.




- ▶ Select **Hey Mercedes**.  
When the function is active, the **Hey Mercedes** voice command can activate the dialogue.

### Switching direct commands on or off

- ▶ Select .
- ▶ Activate or deactivate the function.  
If the function is active, under certain conditions, some commands can be used without **Hey Mercedes**, for example **Navigate home**.
- ❗ The function can only be used if there are no other occupants in the vehicle.

### Switching voice activation for individual seats on or off

- ▶ Select .
- ▶ Switch the function for the desired seats on or off.

### Switching proactivity on or off

- ▶ Select **Further settings**.

- ▶ Select the desired situation, e.g. **Activate your profile** or **Don't forget your phone**.  
When the function is active, voice control proactively provides information in specific situations.

### Activating or deactivating online voice control

- ❗ Online voice control is activated at the factory.
- ▶ Select **Online recognition**.
- ▶ Activate or deactivate the function.  
If the function is switched on and a Mercedes-Benz user account is linked to the vehicle, additional results are available through external information.

### Activating or deactivating contacts for online use

- ▶ Select **Contact upload for online recognition**.  
When the function is active, contacts will be found more easily and accurately using voice input.

## Using voice control

### Optimum use of voice control

- The voice control system is ready for operation half a minute after the vehicle is switched on and can be operated from different seats depending on the equipment. The system recognises from which seat the command was spoken and performs actions according to the seat position.
- When a dialogue has ended, voice control remains active as long as the blue star is displayed in the multimedia system. Another voice command can be spoken without saying **Hey Mercedes**.

Using the direct command **Change language to English**, the system language can be changed to English without **Hey Mercedes**. Direct commands must be activated for this.

- With voice control, incoming calls can be accepted or rejected without the keyword **Hey Mercedes**.



## ■ Online voice control

Online voice control enables better recognition and provides additional results through external information.

Mercedes-Benz therefore recommends activating online voice control .

You will need a Mercedes-Benz user account for this. If you do not yet have a user account you must create one and connect it with your vehicle .

Then call up your Mercedes-Benz user account. The Mercedes-Benz services are displayed and can be activated .

Additional functions are available when online voice control is active, such as:

- Weather
- General knowledge
- Public holidays and school holidays
- Vehicle information
- Smart home
- Messages
- Time, date and time zones

- Pocket and currency calculator
- Football results and fixture lists
- Share prices
- Calendar
- ChitChat
- Horoscope
- Geo Quiz

- ❗ The availability of these functions is country and equipment-dependent.
- ❗ Text content is taken from Wikipedia in accordance with the CC BY-SA 3.0 licence.

## ■ Voice commands

It is not necessary to use exact voice commands to call up a specific function. The voice control system also understands you when you use colloquial language. Some examples are listed below. For some languages however these examples are only available to a limited extent.

Examples of voice commands:

- Navigation
- Telephone

- Radio and TV
- Media player
- Vehicle functions
- Online functions

## ■ Examples of navigation voice commands

You can operate the navigation system using voice control. The following list offers just a small selection of the possible navigation commands.

- ❗ With voice control, three-word addresses can also be used for navigation. Further information on three-word addresses .

"Hey Mercedes, ..."

- Drive me home.
- Where is the nearest service station?
- Is there a service area along the route?
- Set Covent Garden as intermediate destination.
- Cancel the route guidance.
- Show my last destination.
- Search for a filling station near the Mercedes-Benz Museum in Stuttgart.



- Navigate me to Warsaw and avoid toll roads.
- How is the traffic on the way to work?

### ■ Examples of telephone voice commands

You can use voice control to operate telephones connected to the MBUX multimedia system. The following list offers just a small selection of the possible telephone commands.

"Hey Mercedes, ..."

- Call Peter Miller on the mobile phone.
- Dial 0711 17 0.
- Call my father.
- Write a text message to Jane Smith.
- Search for the contact Peter Miller.
- Tell Peter Miller: "I'll be there five minutes later".
- Read me my new text messages.
- Show me my calls.
- Switch to address book

For an incoming call:

- Reject call

- Accept call

### ■ Examples of radio and TV voice commands

Depending on the vehicle equipment, you can operate the radio and TV using voice control. The following list offers just a small selection of the possible radio or TV voice commands.

"Hey Mercedes, ..."

- Play the radio station Heart FM.
- Next station.
- Previous station.
- Show me the list of radio stations
- Save the station
- What am I listening to?

### ■ Examples of media voice commands

You can operate connected media sources and online music with voice control. The following list offers just a small selection of the possible media voice commands.


"Hey Mercedes, ..."

- Play Michael Jackson.

- Play Michael Jackson on Spotify.
- Play "Yellow Submarine" by the Beatles.
- Next track.
- Previous track.
- Repeat this track.
- Please skip five seconds.
- Please go back five seconds.
- Switch on random playback.
- Set the music volume to level six.
- Mute the music.
- Switch to USB.

### ■ Examples of vehicle voice commands

You can use voice control to operate the settings and functions of your vehicle. The following list offers just a small selection of the possible vehicle voice commands.

-  If no seat is mentioned for commands, the action is carried out automatically for the seat from which the command was spoken or for the function which is closest to that seat.



"Hey Mercedes, ..."

- Switch the seat heating to level 2.
- Start the Refresh programme.
- Switch the massage function on.
- I would like to set the ambient light to blue
- Switch on the reading lamp.
- Turn off the rear light.
- Open all the windows.
- Switch the driver display to 3D.
- How fast can I drive here?
- Switch off the speed warning.

Information about the vehicle can also be requested:

- Information about individual items of the vehicle equipment
  - Hey Mercedes, which massage programmes do you have?
  - Hey Mercedes, do I have Blind Spot Assist?

- Hey Mercedes, where is the warning triangle?
- Information about functioning of the systems and components installed in the vehicle
  - Hey Mercedes, what is DISTRONIC?
  - Hey Mercedes, what do I need ESP for?
  - Hey Mercedes, what is MBUX?
- Information about operating the systems and components integrated in the vehicle
  - Hey Mercedes, how do I connect my smartphone?
  - Hey Mercedes, how can I turn on the main beam headlamps?
  - Hey Mercedes, how do I stop the ionization function?

#### ■ Examples of online functions

When online voice control is active, additional functions are available depending on the country, language and vehicle equipment. The system accesses external information and can, for example, answer questions about general knowledge,

provide information about weather or locations, perform calculations, etc.

"Hey Mercedes, ..."

- Is the sun shining in Manchester?
- Is it raining at my destination?
- What are the skiing conditions on the Zugspitze?
- What's the time in Sydney now?
- In which country do you pay with dollars?
- How many Swiss francs make 25 euros?
- How long now until the holidays?
- What day is it tomorrow?
- What is 20 % of 29?
- What does my horoscope say?
- What is the price of Mercedes-Benz Group shares?
- Let's play Geo Quiz.
- I'm bored.
- Who is the current prime minister?
- What do you know about the Globe Theatre in London?




- Who painted the picture "The Scream"?
- What's the status in the Premier League?
- Create a calendar entry tomorrow at 9 am.
- Tell me a joke.
- How many languages do you speak?
- What is your favourite animal?
- Are there any updates?

### ■ Direct commands


With direct commands, some functions can be operated without first saying the voice command **Hey Mercedes**. To use direct commands, the function must be activated in the multimedia system.

### ■ Configuring MBUX Virtual Assistant

#### Starting configuration: variant 1

- ▶ Select .
- ▶ Select **Settings**.
- ▶ Select **Virt. Assistant**.
- ▶ Select **Customise assistant**.

#### Starting configuration: variant 2

- ▶ Pull the bar at the top centre of the display downwards.  
The Notification Centre opens.
- ▶ Select .
- ▶ You can now make the desired configurations.

#### Configuring routines

- ▶ Switch **Routines** on/off.

#### Configuring suggestions

- ▶ Select **Suggestions**.
- ▶ Switch the option on/off, e.g. **Pre-entry climate ctrl** or **Navigation**.

#### Resetting suggestion history

- ▶ Select **Suggestions**.
- ▶ Select **Reset suggestion history** or an option.  
A prompt appears.
- ▶ Select **Yes**.

#### Configuring notifications

You can activate a notification that reminds you of a mobile phone in the front storage compartment

or a device connected via USB when you leave the vehicle.

- ▶ Select **Notifications**.
- ▶ **To make general settings:** switch **Group notifications** or **Acoustic signals** on/off.
- ▶ **Notification via mobile phone in the vehicle:** switch on **"Don't forget your smartphone"**.

### User profiles

#### ■ Notes on user profiles

**⚠ WARNING** Risk of becoming trapped during adjustment of the driver's seat after calling up a driver profile

Selecting a user profile may trigger an adjustment of the driver's seat to the position saved under the user profile. You or other vehicle occupants could be injured in the process.

- ▶ Make sure that when the position of driver's seat is being adjusted using the multimedia system, no people or body parts are in the seat's range of movement.



If there is a risk of someone becoming trapped, immediately stop the adjustment process by:

▶ a) Tapping the warning message on the central display.

or

▶ b) Pressing a position button of the memory function or a seat adjustment switch in the driver's door.

The adjustment process is stopped.

The electrically adjustable driver's seat is equipped with an automatic reversing function.

If the driver's door is open, the driver's seat will **not** be set after calling up the driver's profile.

## ■ Overview of user profiles

### Requirements for use

- You have registered with a Mercedes me ID and confirmed the terms of use.
- Your Mercedes me ID is linked to the vehicle.

**i** If one of the pre-requisites listed is missing or if no user profile has been selected, the data described in the following section will be saved in the vehicle as the standard setting. Standard settings can be changed by all vehicle users.

User profiles save personal settings. If the vehicle is used by several people, a person can change their profile settings without changing the settings of other users.

**i** Some settings apply to the entire vehicle and are displayed in all user profiles, e.g. ambient lighting and the current navigation settings. These are assigned to the driver's profile, but can also be changed by the other vehicle occupants in their user profile.

You can individualise a user profile in the vehicle using the set-up assistant or using the settings in your user profile. Some settings, e.g. a profile photo, can be made either in the Mercedes-Benz App or in the Mercedes-Benz Portal.

**i** If the user profile is downloaded while travelling, user profiles are not set up using the set-up assistant.

User-specific content and applications with personal data are protected by different levels of security (→ page 304).

Depending on the vehicle's equipment, different methods can be used to access protected content, e.g. the Mercedes me PIN, the multifunction interior camera, a QR code or the user profile PIN.

**i** The security level is prescribed by the multimedia system. Some security levels cannot be turned off.

**i** When a user profile is activated, the following personalised comfort systems, for example, can be adjusted or their settings loaded:

- Seat
- Ambient light
- Outside mirrors
- Air-conditioning settings
- Head-up display

If the user profile is activated when driving then the driver's seat position will not be adjusted.



## User-specific content

Depending on the vehicle equipment you can, as a user, save the following settings, for example:

- Driver's seat, steering wheel and mirror settings
- Climate control
- Ambient light
- Radio (including station list)
- Suggestions

If the vehicle key is linked to the user profile, the user profile is pre-activated when unlocking the vehicle or approaching a vehicle with KEYLESS-GO. Light, mirror and seat adjustments are made during this process.


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

## ■ Adding a user

### Requirements:

- The vehicle is stationary.

▶ Select  in the status line.

- ▶ Tap on **Select user**.
- ▶ Select  **Add user**.  
A QR code is loaded.
- ▶ Scan the displayed QR code with the Mercedes-Benz App or any QR code scanner on a mobile device. If the Mercedes-Benz App is not yet installed on your mobile device, you will be redirected to the store on your mobile device.
- ▶ Follow the steps in the Mercedes-Benz App. The vehicle is linked to your Mercedes me ID. This automatically creates your user profile in the vehicle.

If the vehicle is parked, the setup assistant starts automatically once a user profile has been successfully added.

- ① When the user has been added, they can be selected (→ page 306).

## ■ Selecting user options

### Protecting user-specific content and applications

If you add a new user, access protection is already activated for the user profile. Depending on the vehicle equipment, access is possi-

ble using either the Mercedes me PIN or a QR code as the primary authentication method. Furthermore, biometric sensors may be available for authentication purposes.

The following user-specific content and applications are protected, for example:

- User selection and user profile settings
- Biometric sensors

Facial recognition is carried out via the multi-function interior camera.

The camera must be set up before using facial recognition.

- Suggestions

The data and determination of the most probable navigation destinations, media sources, radio stations, contacts and messages.

- In-Car Calendar

The calendar.

- Parking service

The payment transactions.


- Mercedes-Benz Store



The purchase of Digital Extras

- System activations of paid vehicle functions

If biometric sensors deliver insufficient data, you will be requested to authenticate or re-authenticate in the following situations:

- When selecting a protected user profile
  - When calling up a function requiring special protection
  - If the seat belt buckle and the door are opened at the same seat and a function requiring special protection is called up
- ① Facial recognition for re-authentication in the driver's seat is only possible once the door has been closed or the seat belt buckle has been fastened again.
- ▶ Select  in the status line.
  - ▶ Select **Settings**.
  - ▶ Select **Protect content**.
  - ▶ Switch **Access protection** on or off.

① When access protection is switched off, your user profile can be viewed from any seat and changes can be made.

① Access protection is switched on or off on a profile-specific basis.

① Note that authentication is necessary for some functions and therefore cannot be switched off completely.

### Setting up and editing biometric recognition

The biometric data models are saved in the sensors in the vehicle. If recognition has been set up, this sensor is used for authentication on the multimedia system.

- ▶ Select **Protect content**.
- ▶ Select **Facial recognition**.

① If necessary, authenticate yourself on the multimedia system.

### Setting up and editing a profile PIN

Depending on the equipment, a profile PIN can be set up as an additional option for authenticating on the system. In line with this, it may be necessary to scan a QR code using a mobile phone.

- ▶ Select **Protect content**.
- ▶ Select **Set PIN**.
- ▶ Follow the instructions of the setup assistant.


### Deleting a profile PIN

- ▶ Tap on  behind the PIN.
- ▶ Select **Yes**.

### Setting up facial recognition

- ▶ Follow the system's instructions. Your face is scanned. The system will inform you whether the facial recognition was successfully set up. You can unlock your user profile and protected applications with the facial scan.

### Deleting biometric data

- ▶ Tap on  behind **Facial recognition**.
- ▶ Select **Yes**.

### Calling up the set-up assistant

- ▶ Select **Profile**.
- ▶ Select **Set-up assistant**.



- ▶ Follow the directions from the set-up assistant.

### Teaching in the key for profile selection

- ▶ Select **Protect content**.
- ▶ Select **Key recognition**.
- ▶ Have the key ready and follow the set-up assistant's prompts.  
The user profile is linked to the selected key.

If you open the vehicle with the key, the light, mirror and seat settings for your user profile are pre-activated:

- Vehicles with KEYLESS-GO: on approach
- Vehicles without KEYLESS-GO: when unlocking the doors

The key you are currently using for unlocking is used.

The personalised settings of your user profile are loaded.

- ❗ The seat moves to the corresponding position before the driver's door is opened (→ page 124).

- ❗ The key is only stored for the driver and for one user profile.

### Changing a user name or profile photo

- ▶ Select **Profile**.
- ▶ Select **Change user name**.
- or
- ▶ Select **Profile picture**.
- ▶ Enter the user name or select a user image.
- ▶ Select **Finished**.

- ❗ You can store your photo in your Mercedes me ID in the app or in the portal. The photo will then be shown in the vehicle. In the vehicle itself, you can select other sample images instead of the photo.

### Deleting a user profile

- ▶ Select **Profile**.
- ▶ Select **Remove**.
- ▶ Select **Remove user profile**.

- ❗ In doing so, both the Mercedes me PIN and the biometric data in the vehicle and on the sensors will be deleted.

- ❗ Your Mercedes me ID and your personal data are retained in the Mercedes-Benz ecosystem.

### Resetting the user profile to factory settings

- ▶ Select **Profile**.
- ▶ Select **Reset**.
- ▶ Select **Yes**.

- ❗ In doing so, both the Mercedes me PIN and the biometric data in the vehicle and on the sensors will be deleted
- ❗ You are only resetting the user profile to the factory settings; none of the other system settings in the vehicle are changed.

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

### Selecting a user

- ❗ When you call up your driver profile, the driver's seat and the steering wheel can be set.



You can cancel the setting process with the following actions:

- Tap on the [Tap here to cancel.](#) message on the central display.
- Press one of the seat operating buttons in the driver's door.

▶ Select  in the status line.

▶ Tap on [Select user.](#)

▶ Select a user.

▶ If requested, authenticate using one of the displayed methods.

The user profile is loaded and activated.

- ❗ If you select [Continue without selecting user](#), no specific settings for the user profile are loaded.

## ■ Synchronising user profiles

### Requirements:

- You have registered with a Mercedes me ID and confirmed the terms of use.
- Your Mercedes me ID is linked to the vehicle.
- A user is selected.

▶ Select  in the status line.

▶ Select [Settings.](#)

▶ Activate [Synchronise automatically.](#)

When the vehicle is switched on or off, the data stored in the vehicle is automatically synchronised with the Mercedes me IDs. This synchronisation is done for all user profiles and is not profile-specific.

or

▶ Select [Synchronise now.](#)

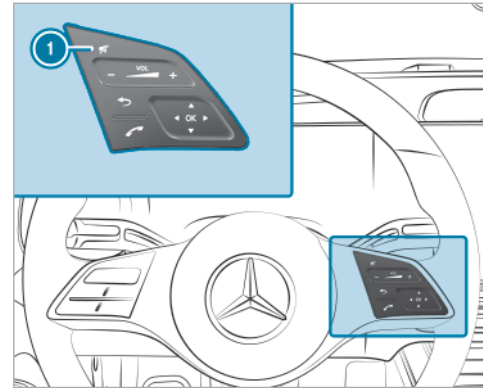
After selecting this option, the data stored in the vehicle is synchronised with the Mercedes me IDs.

- ❗ Not all user profile functions are available during synchronisation.

- ❗ If the Personalisation Digital Extra is not activated for the vehicle, only the following basic data from the user profile will be synchronised:

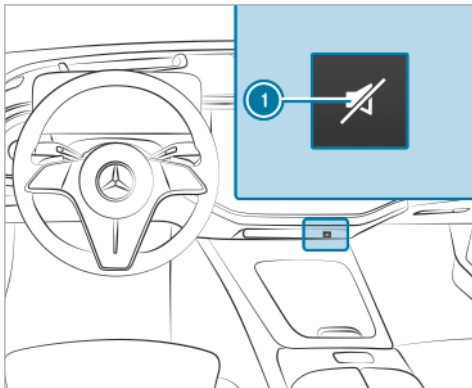
- Profile name
- Profile image
- Equipment-dependent: Mercedes me PIN

## Switching the sound for the MBUX multimedia system on/off



On the steering wheel





On the central display control panel (MBUX Superscreen)

▶ **To switch off:** press button ❶.  
The current audio source is muted.

If you are listening to a radio station, for example, and switch off the sound then all media sources will be muted.

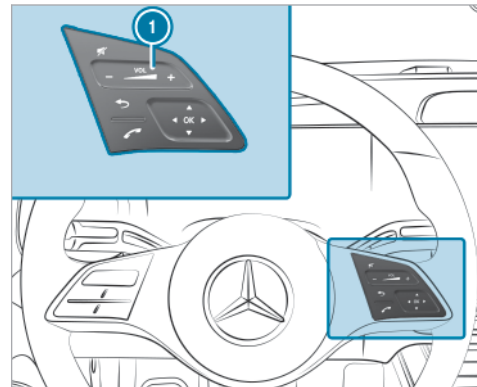
Traffic and navigation announcements can still be heard in this case. Voice control and telephony are also not affected.

#### Switching on

- ▶ Press button ❶ again.
- or
- ▶ Set the volume.
- or
- ▶ The media source changes.

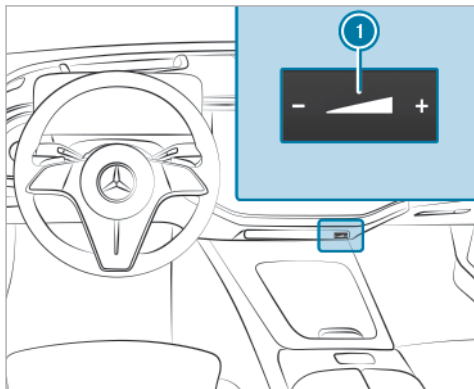
### Setting the volume of the MBUX multimedia system

#### Setting with the button



On the steering wheel





On the central display control panel (MBUX Superscreen)

▶ Press **-** or **+** ①.

or


▶ Swipe across button ①.  
The volume of the current audio source in the foreground is set.

Using the control, the volume is adjusted for the following groups:

- Entertainment
- Ringtone
- Calls, for example phone calls
- Voice output, e.g. voice control
- Navigation announcements

① If you set the volume of the voice output to "0", for example, a minimum volume is set automatically the next time the voice control is called up. The entertainment volume is automatically adjusted after the multimedia system is restarted.

### Setting in the menu

- ▶ Tap on  in the bottom bar.
- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Audio**.
- ▶ Select a volume setting.

① The volume can be set for all groups except the entertainment volume.

▶ Set the volume.

The following settings are also available in the Assistance menu:

- Switching the navigation announcements on or off during a phone call.
- Reducing the entertainment volume while a navigation announcement is being issued.

## Multifunction interior camera

### Overview of the multifunction interior camera

**⚠ WARNING** Risk of injury from infrared radiation from the camera

This product uses an infrared lighting system of risk group 0 (RG0). If the housing is opened or damaged, infrared radiation may damage your retina.

▶ Do not open the housing.



- ▶ Always have maintenance work and repairs carried out by a qualified specialist workshop.

This device is a product of risk group 0 (RG0) according to IEC 62471: 2006 (First Edition) & DIN EN 62471: 2008.

The camera is located in the top centre of the central display.

The camera consists of an infrared/RGB camera.

The camera registers the following features:

- Head position
- Viewing direction
- Eyelid closure characteristics
- Driver's face

① The camera is automatically activated in the following situations:

- The vehicle is opened/unlocked with the key.
- The driver's door is opened and then closed.

The current status of the camera is shown in the status line of the central display.

-  with a white dot

The camera is switched on. RGB video streaming is inactive.

-  with a red dot

The camera is switched on. RGB video streaming is active.

- The camera lens is crossed out

The camera is switched off.

① The camera captures image data for applications such as ATTENTION ASSIST and facial recognition.

The camera converts the image data directly into meta data. No image data is saved in the process. The data is only processed in the vehicle and is not transmitted from the vehicle.

The camera must be set up for facial recognition before use (→ page 304).

## System limits

The system may be impaired or may not function in the following situations:

- The camera is covered or dirty, misted up or scratched.
- The driver's face and/or eyes are covered.
- The driver is wearing glasses that block infrared.

## Display messages

If applications, e.g. ATTENTION ASSIST, are restricted, display messages regarding the availability or function of the multifunction interior camera may be shown.

## Notes on care

For the display, please comply with the notes on caring for the interior (→ page 417).

## Switching the multifunction interior camera on/off

- ▶ Tap on  in the bottom bar.
- ▶ Select **Settings**.



- ▶ Select **System**.
- ▶ Select **Private mode**.
- ▶ Select **On** or **Off**.



If the camera is switched off or an application displays a camera-related display message, the following functions are not available or only available to a limited extent:

- The microsleep and distraction detection function of ATTENTION ASSIST (→ page 210)
- The camera-based locking concept for the front passenger display
- The facial recognition  
This function serves as sensor input for authentication and unlocking of the user profile and protected applications (→ page 304).
- The camera app
- **Automatic locking when the key is removed from the vehicle's vicinity (→ page 94)**

**A person with a key belonging to the vehicle walks away from the vehicle.**

- A Starfish video conference (In-Car app)

- ▶ **To use the streaming function:** switch **Allow RGB streaming** on or off.  
If the function is switched off, the camera app and Starfish video conferencing are not available or only available to a limited extent.

- ❗ Alternatively, these settings can be made via the  camera symbol in the status line. After the camera symbol is selected, the extended view appears.  
 calls up **Private mode**.

## System settings

### Display

#### ■ Configuring display settings

Multimedia system:





- ▶ Select **Settings**.
- ▶ Select **System**.

#### Adjusting the brightness

- ▶ Select **Display brightness**.

- ▶ Vehicles with a driver display and central display: adjust the display brightness of the driver display or central display.
- ▶ Vehicles with the MBUX Superscreen: adjust the display brightness of the driver display, central display or the front passenger display.

### Switching the head-up display on/off

- ▶ Switch the head-up display on  or off .

### Setting the decorative image for the front passenger display (vehicles with MBUX Superscreen)

- ❗ The function is country-dependent.
- ▶ Select **Passenger screen decorative image**.  
A selection of decorative images is displayed.
- ▶ Select the desired decorative image.
- ❗ The number of available decorative images is variable.
- ❗ If no user is logged in to the front passenger display and the front passenger display is switched on, the digital decorative image is visible.



## Time and date

### Setting the time zone

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Time and date**.
- ▶ Select **Time zone**.

The list of countries is displayed.

- ❗ If several time zones are available in a country, these are displayed after selecting the country.

- ▶ Select a country and, if required, a time zone. The time zone set is displayed after **Time zone**.

or

- ▶ Select the **Automatic time zone** entry from the country list. The time zone will be set automatically according to the vehicle location.

- ❗ The **Automatic time zone** option is available for vehicles with satellite reception.

### Setting the time and date format

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Time and date**.
- ▶ Select **Set format**.
- ▶ Select a time and date format.

### Setting the time and date manually

**Requirement:**

- The vehicle does not have satellite reception.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Time and date**.

### Setting the time

- ▶ Select **Set time**.
- ▶ Set a time.

- ▶ Exit the menu via "Back".

### Setting the date

- ▶ Select **Set date**.
- ▶ Select **Set time**.
- ▶ Exit the menu via "Back".

- ❗ On vehicles with satellite reception, the time and date settings are determined automatically based on the vehicle location and cannot be set manually.

### Adjusting the time

- ▶ Select **Adjust time**.
- ▶ Set **A value**.
- ▶ Exit the menu via "Back".

- ❗ The function is only available in vehicles with satellite reception.




## Vehicle position

### Switching transmission of the vehicle position on/off

#### Requirements:

- The vehicle is linked to a Mercedes-Benz ID.
- At least one Mercedes-Benz digital service is activated for the vehicle, via which the vehicle position can be displayed to customers and/or co-users via the respective user accesses.

With this setting, you decide whether the vehicle position will be transmitted in order to show it to users who have access to the digital Mercedes-Benz services for this vehicle.



-  The function is country-dependent. For more information, consult a Mercedes-Benz Service Centre.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.

- ▶ Select **Data protection**.
- ▶ Activate or deactivate the **Transmit veh. position** function.

-  Alternatively, the function can also be switched on or off in the status line via .

### Setting permissions

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Data protection**.
- ▶ Set **Permissions**.

In the **Permissions** menu, access authorisations can be set for various data points (e.g. microphone, camera) that are used as part of an application. Authorisations that have already been granted can be changed here. The authorisations can be set either for individual data points or for specific applications or websites.

- ▶ Select **Requests** or **Apps/websites**.

- ▶ Make the required settings for the permissions.

## Bluetooth®

### Information about Bluetooth®

Bluetooth® technology is a standard for short-range wireless data transfer up to approximately 10 m.

You can use Bluetooth® to connect your mobile phone to the multimedia system and use the following functions, for example:

- Hands-free system with access to the following options:
  - Contacts (→ page 362)
  - Call lists (→ page 363)
  - Text messages (→ page 363)
- Internet connection (→ page 385)

Bluetooth® is a registered trademark of Bluetooth Special Interest Group (SIG) Inc.

-  Internet connection via Bluetooth® is not available in all countries.



## ■ Activating/deactivating Bluetooth®

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Activate or deactivate **Bluetooth**.

## Wi-Fi

### ■ Wi-Fi connection overview

Use Wi-Fi to establish a connection to the Internet or to external network devices.

- ① Availability of the function is dependent on the respective country.

For the Wi-Fi connection, there is a choice between:

- **Using the multimedia system as a Wi-Fi hotspot** (→ page 314)

The multimedia system in the vehicle serves as a Wi-Fi hotspot for mobile communication devices such as a smartphone or tablet PC.

- **Using a mobile communication device as a Wi-Fi hotspot (tethering)** (→ page 387)

An external Wi-Fi hotspot is accessed for the Internet connection of the vehicle's multimedia system.

## ■ Activating/deactivating Wi-Fi

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **Wi-Fi**.

Wi-Fi is switched on

When Wi-Fi is switched on, the multimedia system can be connected to external hotspots or be available as a hotspot for external devices.

When Wi-Fi is switched off, it is not possible to establish a hotspot connection.

- ① Availability of the function is dependent on the respective country.

## ■ Using the multimedia system as a Wi-Fi hotspot

### Requirements:

- The device to be connected supports at least one of the types of connection described.  
The connection types shown depend on the device to be connected. The function must be supported by the multimedia system and by the device to be connected. The type of connection must be selected on the multimedia system and on the device to be connected.
- ① The data volume of the vehicle or an already connected tethering device is used for the data connection.



Vehicle data volume: depending on the vehicle equipment, you can purchase an Entertainment Package via the Mercedes-Benz Store. In order to use the data package included, you must conclude your own contract with a mobile phone network provider via the Mercedes-Benz App. This can be terminated at any time and incurs no costs. Without this contract it is not possible to use the services included in the previously acquired Entertainment 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. The availability of this option is dependent on the country.

- ❗ Some functions may first need to be activated on the device being connected. Further information can be found in the manufacturer's operating instructions.
- ❗ The use of the vehicle data tariff by external devices is not available in all countries.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **MBUX hotspot**.
- ▶ Select one of the following connection options.

### Connecting using a QR code

Requirement: an app for scanning the QR code is installed on the device being connected.

Alternatively: the device being connected has an integrated QR code scanner (see the manufacturer's operating instructions).

- ▶ Scan the QR code shown.  
The WLAN connection is established.

### Connecting using a security key

- ▶ Select the vehicle from the device to be connected. The vehicle is displayed with the **MBUX XXXXX** network name.

- ▶ Enter the security key which is shown in the central display on the device to be connected.
- ▶ Confirm the entry.

### Generating a new security key

- ▶ Select the **Generate new security key** option in the **MBUX hotspot** menu.
- ▶ Confirm the prompt with **Yes**.  
A new security key is generated.

A connection will be established with the newly created security key.

- ❗ When a new security key is generated, all existing Wi-Fi connections are then disconnected. If the Wi-Fi connections are re-established, enter the new security key.

## System language

### Notes on the system language

This function allows you to determine the language for the menus and navigation announcements. The selected language affects the characters available for entry. The navigation announcements are not available in all languages. If a lan-



guage is not available, the navigation announcements will be in English.

## ■ Setting the language

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Language**.

## Setting the system language

A list of the available system languages is shown.

- ▶ Select a language.  
The system language is switched to the selected language.

## Setting the distance unit

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.

This function is not available in all countries.

- ▶ Select a unit for the distance.
- ▶ Activate **Additional speedometer** for an additional display in the driver display.

## Software update

### ■ Information on software updates

Software updates keep your vehicle and the related systems up-to-date and prevent security flaws.

Software updates are available for vehicle components such as control units, convenience systems, locking and safety systems, driver assistance systems, suspension and drive systems as well as for the MBUX multimedia system. Software updates are available via the communication module or a Wi-Fi connection to an external hotspot.

The navigation maps are also updated via updates from external storage media (e.g. USB flash drive).

Install available software updates regularly. Otherwise the security of your MBUX multimedia system and individual vehicle components cannot be ensured.

Further information about software updates can be found at <https://me.secure.mercedes-benz.com>.

## ■ Carrying out software updates

### Data protection notes and regulations

- By agreeing to receive over-the-air updates (OTA updates), software updates for digital products (e.g. Digital Extras) and the functions of the vehicle to maintain safety and conformity with the contract are made available to the vehicle within a reasonable period of time. Furthermore, there is no entitlement to OTA updates that go beyond maintaining contractual conformity or security updates, for example by improving and expanding digital products and vehicle functions and providing or enabling new functions of the vehicle and digital products
- OTA updates can also be used to carry out customer service and recall measures that may be necessary for trouble-free and/or legally compliant operation of the vehicle. It is recommended the OTA updates offered are carried out and installed.



- The user agrees that OTA updates offered for download via the integrated vehicle SIM card or the user's own data connections will be carried out automatically. For this purpose, the automatic download and installation of software updates is preset in the vehicle as far as technically possible. If an OTA update is not carried out automatically, it will only be carried out after the user has installed it
- The user acknowledges that the performance or functionality of digital products and the vehicle may be impaired if OTA updates are not installed on time or properly. Liability for a defect based on the fact that the user has not installed OTA updates or has not installed them properly is excluded.
- With every OTA update, the user is informed that an OTA update is being provided, what it contains, the consequences of not installing it and how to install it.
- Changes to the scope of services of the digital products and vehicle functions are also possible by means of OTA updates, subject to the following conditions: digital products and vehicle functions can be further developed

at any time and individual functions can be added, changed or removed. The adjustment will only be made if there is a valid reason and the user does not incur any additional costs. The following circumstances may lead to an adaptation of the digital products and vehicle functions: adaptation to a new technical environment, adaptation to an increased number of users, adaptation due to important operational reasons, in particular to maintain safety, further development of the digital products and vehicle functions, adaptation due to new legal requirements and case law established at the highest judicial level or other equivalent reasons.

- OTA updates are subject to the availability or restrictions of the selected data connection and the equipment in the vehicle. This means that the download and installation time varies depending on the vehicle and can range from a few minutes to several hours. The user is aware that downloading OTA updates via the user's own data volume may incur additional costs with the user's network provider.

- For technical reasons, some OTA updates can only be carried out in the workshop.
- During the download and installation of OTA updates, the vehicle or individual components (e.g. the infotainment system or communication module) may be functionally restricted for a limited period of time. In rare cases, the functional restriction may also persist and a repair in the workshop may be necessary.
- Further information on data processing, data protection and data security can be found in the data protection notes.
- Users can revoke their consent to receive OTA updates at any time by deactivating the receipt of OTA updates in the vehicle menu under > Settings > System.

### Requirements:

For software updates via the communication module and Wi-Fi:

- Your vehicle is linked to a Mercedes-Benz ID.
- Software updates without Mercedes-Benz ID: the [Allow software updates](#) option in the [Software update](#) menu is activated.



- For software updates via the communication module: an Internet connection exists via the communication module (→ page 386).
  - For software updates via Wi-Fi: a connection to an external Wi-Fi hotspot exists (→ page 387).
- ❶ Depending on the software update, this is started via the communication module, Wi-Fi or an external storage medium.
- ❷ Online software updates cannot be performed via external Wi-Fi hotspots that are encrypted via TKIP.
- ❸ If the Wi-Fi hotspot requires logging in via the browser, once the connection is successfully established the browser will open in order to start the update. To start the download follow the instructions in the browser.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Software update**.

### Starting a map update from an external storage medium

- ▶ Connect the storage medium with the vehicle via a media interface.  
A message about an available map update appears on the central display.
- ▶ Select the message.
- ▶ Select **Start**.  
The map update is started.

### Starting the software update via the communication module

If the **Automatic online update** option is active, available software updates are downloaded and installed automatically. Activate the option in order to always keep your vehicle up-to-date and avoid security flaws.

- ▶ Select **Automatic online update**.  
The software update is downloaded automatically and also installed automatically if necessary.

If the option is deactivated, you will be notified of new software updates. The updates are available for downloading for a limited period of time.

- ▶ Select an update from the list of available updates.
- ▶ Start the update.  
The software update is downloaded automatically and also installed automatically if necessary.

### Starting a software update via Wi-Fi

Some software updates require an additional connection to a Wi-Fi hotspot. The connection to an external hotspot can be established when the software update is started.

- ▶ Select an update from the list of available updates.
- ▶ Start the update.
- ▶ Establish the connection to a Wi-Fi hotspot.  
The update is downloaded automatically and also installed automatically if necessary.

**For software updates requiring a safe vehicle status:** when the last installation step is reached, a message appears in the central display after the



vehicle is switched off. Follow the instructions to complete the installation.

Some software updates can only be installed when the vehicle is safely parked.

- ❗ Make sure that there are no people in the vehicle.

### Installing software updates

Software updates are downloaded after the download and may also be installed automatically. As soon as the software update has been completed, a message appears in the central display. It may be necessary to restart the MBUX multimedia system.

Some software updates require a safe vehicle status for the installation to be completed. They can only be carried out in a safely parked vehicle with the vehicle switched off. If this is necessary, a message appears on the central display after the vehicle is switched off.

- ▶ Follow the instructions on the central display.

For some software updates, you can set a time for installation. The installation is carried out automatically at the scheduled time. You do not need

to be in the vehicle during installation. Note that the planned installation is cancelled as soon as the vehicle door is opened.

If an installation is available where you can set the time, a message appears on the central display after the vehicle is switched off.

- ▶ Follow the instructions on the central display.

The vehicle cannot be used while these software updates are being installed. Make sure that no persons or animals are in the path of your vehicle. Events stored in the vehicle's control units can be overwritten.

### Carrying out software updates

#### Data protection notes and regulations

- By agreeing to receive over-the-air updates (OTA updates), software updates for digital products (e.g. Digital Extras) and the functions of the vehicle to maintain safety and conformity with the contract are made available to the vehicle within a reasonable period of time. Furthermore, there is no entitlement to OTA updates that go beyond maintaining contractual conformity or security updates, for exam-

ple by improving and expanding digital products and vehicle functions and providing or enabling new functions of the vehicle and digital products

- OTA updates can also be used to carry out customer service and recall measures that may be necessary for trouble-free and/or legally compliant operation of the vehicle. It is recommended the OTA updates offered are carried out and installed.
- The user agrees that OTA updates offered for download via the integrated vehicle SIM card or the user's own data connections will be carried out automatically. For this purpose, the automatic download and installation of software updates is preset in the vehicle as far as technically possible. If an OTA update is not carried out automatically, it will only be carried out after the user has installed it
- The user acknowledges that the performance or functionality of digital products and the vehicle may be impaired if OTA updates are not installed on time or properly. Liability for a defect based on the fact that the user has



not installed OTA updates or has not installed them properly is excluded.

- With every OTA update, the user is informed that an OTA update is being provided, what it contains, the consequences of not installing it and how to install it.
- Changes to the scope of services of the digital products and vehicle functions are also possible by means of OTA updates, subject to the following conditions: digital products and vehicle functions can be further developed at any time and individual functions can be added, changed or removed. The adjustment will only be made if there is a valid reason and the user does not incur any additional costs. The following circumstances may lead to an adaptation of the digital products and vehicle functions: adaptation to a new technical environment, adaptation to an increased number of users, adaptation due to important operational reasons, in particular to maintain safety, further development of the digital products and vehicle functions, adaptation due to new legal requirements and case law established

at the highest judicial level or other equivalent reasons.

- OTA updates are subject to the availability or restrictions of the selected data connection and the equipment in the vehicle. This means that the download and installation time varies depending on the vehicle and can range from a few minutes to several hours. The user is aware that downloading OTA updates via the user's own data volume may incur additional costs with the user's network provider.
- For technical reasons, some OTA updates can only be carried out in the workshop.
- During the download and installation of OTA updates, the vehicle or individual components (e.g. the infotainment system or communication module) may be functionally restricted for a limited period of time. In rare cases, the functional restriction may also persist and a repair in the workshop may be necessary.
- Further information on data processing, data protection and data security can be found in the data protection notes.

- Users can revoke their consent to receive OTA updates at any time by deactivating the receipt of OTA updates in the vehicle menu under > Settings > System.
- Further information can also be found under the following link: <https://ota.mb-qr.com/terms-and-conditions-ota/index.html>

### Requirements:

For software updates via the communication module and Wi-Fi:

- Your vehicle is linked to a Mercedes-Benz ID.
- Software updates without Mercedes-Benz ID: the **Allow software updates** option in the **Software update** menu is activated.
- For software updates via the communication module: an Internet connection exists via the communication module (→ page 386).
- For software updates via Wi-Fi: a connection to an external Wi-Fi hotspot exists (→ page 387).



- ❗ Depending on the software update, this is started via the communication module, Wi-Fi or an external storage medium.
- ❗ Online software updates cannot be performed via external Wi-Fi hotspots that are encrypted via TKIP.
- ❗ If the Wi-Fi hotspot requires logging in via the browser, once the connection is successfully established the browser will open in order to start the update. To start the download follow the instructions in the browser.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Software update**.

### Starting a map update from an external storage medium

- ▶ Connect the storage medium with the vehicle via a media interface.  
A message about an available map update appears on the central display.

- ▶ Select the message.
- ▶ Select **Start**.  
The map update is started.

### Starting the software update via the communication module

If the **Automatic online update** option is active, available software updates are downloaded and installed automatically. Activate the option in order to always keep your vehicle up-to-date and avoid security flaws.

- ▶ Select **Automatic online update**.  
The software update is downloaded automatically and also installed automatically if necessary.

If the option is deactivated, you will be notified of new software updates. The updates are available for downloading for a limited period of time.

- ▶ Select an update from the list of available updates.
- ▶ Start the update.  
The software update is downloaded automatically and also installed automatically if necessary.

### Starting a software update via Wi-Fi

Some software updates require an additional connection to a Wi-Fi hotspot. The connection to an external hotspot can be established when the software update is started.

- ▶ Select an update from the list of available updates.
- ▶ Start the update.
- ▶ Establish the connection to a Wi-Fi hotspot.  
The update is downloaded automatically and also installed automatically if necessary.

**For software updates requiring a safe vehicle status:** when the last installation step is reached, a message appears in the central display after the vehicle is switched off. Follow the instructions to complete the installation.

Some software updates can only be installed when the vehicle is safely parked.

- ❗ Make sure that there are no people in the vehicle.

### Installing software updates

Software updates are downloaded after the download and may also be installed automatically. As



soon as the software update has been completed, a message appears in the central display. It may be necessary to restart the MBUX multimedia system.

Some software updates require a safe vehicle status for the installation to be completed. They can only be carried out in a safely parked vehicle with the vehicle switched off. If this is necessary, a message appears on the central display after the vehicle is switched off.

▶ Follow the instructions on the central display.

For some software updates, you can set a time for installation. The installation is carried out automatically at the scheduled time. You do not need to be in the vehicle during installation. Note that the planned installation is cancelled as soon as the vehicle door is opened.

If an installation is available where you can set the time, a message appears on the central display after the vehicle is switched off.

▶ Follow the instructions on the central display.

The vehicle cannot be used while these software updates are being installed. Make sure that no

persons or animals are in the path of your vehicle. Events stored in the vehicle's control units can be overwritten.

## ■ Carrying out software updates

### Data protection notes and regulations

- By agreeing to receive over-the-air updates (OTA updates), software updates for digital products (e.g. Digital Extras) and the functions of the vehicle to maintain safety and conformity with the contract are made available to the vehicle within a reasonable period of time. Furthermore, there is no entitlement to OTA updates that go beyond maintaining contractual conformity or security updates, for example by improving and expanding digital products and vehicle functions and providing or enabling new functions of the vehicle and digital products
- OTA updates can also be used to carry out customer service and recall measures that may be necessary for trouble-free and/or legally compliant operation of the vehicle. It is recommended the OTA updates offered are carried out and installed.
- The user agrees that OTA updates offered for download via the integrated vehicle SIM card or the user's own data connections will be carried out automatically. For this purpose, the automatic download and installation of software updates is preset in the vehicle as far as technically possible. If an OTA update is not carried out automatically, it will only be carried out after the user has installed it
- The user acknowledges that the performance or functionality of digital products and the vehicle may be impaired if OTA updates are not installed on time or properly. Liability for a defect based on the fact that the user has not installed OTA updates or has not installed them properly is excluded.
- With every OTA update, the user is informed that an OTA update is being provided, what it contains, the consequences of not installing it and how to install it.
- Changes to the scope of services of the digital products and vehicle functions are also possible by means of OTA updates, subject to the following conditions: digital products and vehicle functions can be further developed



at any time and individual functions can be added, changed or removed. The adjustment will only be made if there is a valid reason and the user does not incur any additional costs. The following circumstances may lead to an adaptation of the digital products and vehicle functions: adaptation to a new technical environment, adaptation to an increased number of users, adaptation due to important operational reasons, in particular to maintain safety, further development of the digital products and vehicle functions, adaptation due to new legal requirements and case law established at the highest judicial level or other equivalent reasons.

- OTA updates are subject to the availability or restrictions of the selected data connection and the equipment in the vehicle. This means that the download and installation time varies depending on the vehicle and can range from a few minutes to several hours. The user is aware that downloading OTA updates via the user's own data volume may incur additional costs with the user's network provider.

- For technical reasons, some OTA updates can only be carried out in the workshop.
- During the download and installation of OTA updates, the vehicle or individual components (e.g. the infotainment system or communication module) may be functionally restricted for a limited period of time. In rare cases, the functional restriction may also persist and a repair in the workshop may be necessary.
- Further information on data processing, data protection and data security can be found in the data protection notes.
- Users can revoke their consent to receive OTA updates at any time by deactivating the receipt of OTA updates in the vehicle menu under > Settings > System.
- Further information can also be found under the following link: <https://ota.mb-qr.com/terms-and-conditions-ota/index.html>

#### Requirements:

For software updates via the communication module and Wi-Fi:

- Your vehicle is linked to a Mercedes-Benz ID.

- Software updates without Mercedes-Benz ID: the **Allow software updates** option in the **Software update** menu is activated.
  - For software updates via the communication module: an Internet connection exists via the communication module (→ page 386).
  - For software updates via Wi-Fi: a connection to an external Wi-Fi hotspot exists (→ page 387).
- ① Depending on the software update, this is started via the communication module, Wi-Fi or an external storage medium.
  - ① Online software updates cannot be performed via external Wi-Fi hotspots that are encrypted via TKIP.
  - ① If the Wi-Fi hotspot requires logging in via the browser, once the connection is successfully established the browser will open in order to start the update. To start the download follow the instructions in the browser.



Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Software update**.

### Starting a map update from an external storage medium

- ▶ Connect the storage medium with the vehicle via a media interface.  
A message about an available map update appears on the central display.
- ▶ Select the message.
- ▶ Select **Start**.  
The map update is started.

### Starting the software update via the communication module

If the **Automatic online update** option is active, available software updates are downloaded and installed automatically. Activate the option in order to always keep your vehicle up-to-date and avoid security flaws.

- ▶ Select **Automatic online update**.  
The software update is downloaded automatically and also installed automatically if necessary.

If the option is deactivated, you will be notified of new software updates. The updates are available for downloading for a limited period of time.

- ▶ Select an update from the list of available updates.
- ▶ Start the update.  
The software update is downloaded automatically and also installed automatically if necessary.

### Starting a software update via Wi-Fi

Some software updates require an additional connection to a Wi-Fi hotspot. The connection to an external hotspot can be established when the software update is started.

- ▶ Select an update from the list of available updates.
- ▶ Start the update.

- ▶ Establish the connection to a Wi-Fi hotspot.  
The update is downloaded automatically and also installed automatically if necessary.

**For software updates requiring a safe vehicle status:** when the last installation step is reached, a message appears in the central display after the vehicle is switched off. Follow the instructions to complete the installation.

Some software updates can only be installed when the vehicle is safely parked.

- ❗ Make sure that there are no people in the vehicle.

### Installing software updates

Software updates are downloaded after the download and may also be installed automatically. As soon as the software update has been completed, a message appears in the central display. It may be necessary to restart the MBUX multimedia system.

Some software updates require a safe vehicle status for the installation to be completed. They can only be carried out in a safely parked vehicle with the vehicle switched off. If this is necessary, a



message appears on the central display after the vehicle is switched off.

- ▶ Follow the instructions on the central display.

For some software updates, you can set a time for installation. The installation is carried out automatically at the scheduled time. You do not need to be in the vehicle during installation. Note that the planned installation is cancelled as soon as the vehicle door is opened.

If an installation is available where you can set the time, a message appears on the central display after the vehicle is switched off.

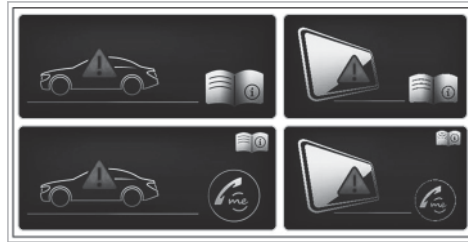
- ▶ Follow the instructions on the central display.

The vehicle cannot be used while these software updates are being installed. Make sure that no persons or animals are in the path of your vehicle. Events stored in the vehicle's control units can be overwritten.

### ■ Availability of the driver and central display

During the installation of software updates, it is not possible to use the vehicle, driver display and

central display. You may receive the following display messages when an installation is running:



- ❗ The display message does not appear every time a software update is installed.

In rare cases, an error can occur during the installation. The multimedia system automatically attempts to restore the previous version.

If it is not possible to restore the previous version, the display message shown above appears every time the vehicle is started.

### Failure of the driver display:

If the driver display fails or there is a malfunction, you may not recognise limitations in the functions

of systems relevant to safety or the speed display, for example. This may impair the operating safety of the vehicle. Park the vehicle safely as soon as possible and notify a qualified specialist workshop (→ page 631).

Further information about software updates can be found at <https://me.secure.mercedes-benz.com>

### Failure of the central display:

If the central display fails or the display message shown above is shown continuously, several systems such as the reversing camera, PARKTRONIC or climate control are no longer available. Drive on carefully and consult a specialist workshop as soon as possible.

### Front passenger display failure (only vehicles with MBUX Superscreen):

If the front passenger display has failed or a display message appears permanently, functions and systems are no longer available via the front passenger display. Visit a qualified specialist workshop.



## Resetting the multimedia system (reset function)

**⚠ WARNING** Risk of accident due to failure of central display functions

While the multimedia system is reset, its functions, such as the reversing camera, are not available.

▶ Only reset the multimedia system when the vehicle is stationary.

### Requirements:

- The vehicle is switched on.
- Some settings can only be reset when the vehicle is stationary.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Reset**.

When resetting the system, personal data and settings are deleted, for example:

- Connected devices

- Individual user profiles
- Biometric data
- Digital vehicle key
- Vehicle link with the Mercedes-Benz ID

**i** The data used and saved in the multimedia system by the driver assistance systems is deleted.  
The vehicle is reset to the factory settings in an unlinked state.

- ▶ Select **Reset**.  
A query appears asking if the system should really be reset.
- ▶ Select **Yes**.  
The multimedia system is reset to the factory settings. The multimedia system is restarted after the system reset.

Due to data protection and the function of individual driving and driving safety systems, it is necessary to carry out a complete system reset before selling or transferring the vehicle to third parties or after using a rental vehicle. Make sure that all relevant data is deleted after the system reset.

## Driving & charging

### Charging settings

Multimedia system:



- ▶ Select **Drive & Charge**.
- ▶ Select **Charging**.

When the vehicle is locked, the display shows a screen with information about the current charging process during charging. After unlocking the vehicle, the display shows the zero layer with charging information.

Information and setting options during a charging process:

- Time until the end of the charging process
- State of charge before and after charging
- Available range
- **End charging process**
- Visualisation of the charging strength
- Status of the charging cable (locked/unlocked)




- Currently achievable maximum charging power

Information and setting options during the journey:


- Current state of charge
- Current range
- Maximum available output
- Energy flow of the vehicle

Settings outside of a charging process:


- Opening the socket flap
- Setting the maximum state of charge




-  When driving to a charging station, the temperature of the vehicle's high-voltage battery is optimised so that an optimal charging experience can be achieved. The current temperature of the high-voltage battery is also shown. In the **Charging** menu, the active temperature optimisation of the battery, as well as the currently achievable maximum charging power is shown in kW. The temperature optimisation of the battery is ended and the corresponding symbol is hidden as soon as the battery

temperature is sufficient, the driver aborts the drive to the charging station, or a vehicle plug is inserted at the vehicle.

-  If the battery has to be preheated, this has consequences for the remaining range of the vehicle. When using the Electric Intelligence Navigation temperature optimisation is taken into account in the energy prognosis. Further information on Navigation with Electric Intelligence (→ page 332)

### Setting the maximum state of charge

-  Select **State of charge**.  
Setting the maximum state of charge.



-  The maximum state of charge can also be set using the slider on the vehicle visualisation in the **Charging** menu.
-  If the set state of charge is lower than the current state of charge, the charging process will be cancelled. Confirm the message which appears on the display.
-  If the range monitor is active, the maximum state of charge cannot be set.

The following influences can lead to a reduction in the maximum charging power:

- Inadequate battery temperature
- State of charge (SOC)
- Charging station with reduced charging power
- Charging system
- Charge control

### Representation of the state of charge in display

The various states during a charging process are shown in the display using colour.

-  If a charging fault occurs, the charging process display is highlighted in red. Observe the displayed information on the fault message.
-  The state of charge is also displayed in colour inside the vehicle socket.
- Breathing white: establishing a connection
  - Flashing white: charging process will be stopped
  - Steady white: charging cable is unlocked
  - Breathing blue: battery is being charged
  - Steady blue: battery is fully charged



Representation of the various states of charge

- Cable connected

### Battery information

The **Battery information** menu shows the current status for the high-voltage battery temperature optimisation. If the high-voltage battery is undergoing temperature optimisation, an icon appears in the vehicle visualisation.

▶ Select **Battery information**.

▶ Select between the options **Auto** and **Off**.

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

### Opening the socket flap

▶ Select .

▶ Select the button for opening the socket flap in the multimedia system's vehicle overview. Close the open socket flap manually.

### Cancelling the charging process

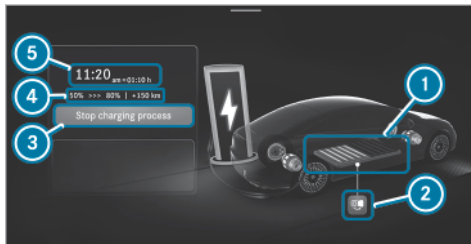
▶ Select **Cancel charging**.

The charging process is ended and the charging cable is unlocked.

- ① Further information on the charging process with alternating current: (→ page 188). Further information on the charging process with direct current: (→ page 193).

### Charging menu

The **Drive & Charge** menu offers information and settings for charging the vehicle under the **Charging** option.



- ① Sets the maximum state of charge  
 ② Opens the socket flap  
 ③ **End charging process**

- ④ State of charge (SOC) at the start of the charging process  
 Set maximum state of charge  
 Recovered range  
 ⑤ Expected end of charge or remaining time until fully charged (up to the selected maximum state of charge).  
 ① The data in the illustration is shown as an example.  
 ① If the vehicle is closed during the charging process, the charging page appears on the central display.

### Calling up status settings

Multimedia system:



- ▶ Select **Drive & Charge**.  
 ▶ Select **Status**.

The following information is available:

- Reminder of the next service appointment
- Current tyre pressure



- Tyre temperature

Settings and information on the following functions are available:

- **MB.Connect Support** (→ page 372)
  - Accident and Breakdown Management
  - Workshop service
  - Mercedes-Benz Customer Centre for general information about the vehicle
- **Tyre pressure**
  - Use the current tyre pressure as a guide value.
- **Tyres**
  - Jump to the tyre settings (e.g. select tyre type)
- **High-voltage battery**
  - Information on the battery charge status
- **Range calculation**
  - Reset range calculation values

## Fit & Healthy

### Setting ENERGIZING seat kinetics

#### Requirements:

- ❗ These functions are available only for fully electric seats with a memory function.


Multimedia system:



- ▶ Select **Seat kinetics**.

ENERGIZING seat kinetics can support back health by changing the seat position during a journey. This involves repeatedly stressing and relieving the muscles and joints by means of minor movements of the cushion and backrest.

#### Starting seat kinetics

- ▶ Select  for the desired seat. The programme will run for the set duration.

#### Configuring seat kinetics

- ▶ Select **Settings** for the desired seat.
- ▶ Select **Backrest** or **Seat surface**.

- ▶ Select the desired duration for the selected seat.
- ❗ You can also start or stop the programme by tapping the relevant seat on the display.
- ❗ Availability of this function depends on the respective equipment.



## Navigation and traffic

### Navigation overview

#### Digital map



#### 1 Navigation module (reduced view)

No destination entered yet:

Tapping opens the navigation module for destination entry

Route guidance active:

Navigation module shows the information relevant to the route in the reduced view, e.g. the arrival time and the time remaining to the destination

Tapping opens the navigation module with the option of selecting alternative routes, displaying traffic information or creating intermediate destinations for the route

- 2 Current vehicle position (vehicle symbol or arrow)
- 3 Map orientation

Pressing 3 several times changes the map orientation in this order:

- 3D and in the direction of travel
  - 2D and to the north
  - 2D and in the direction of travel
  - Additionally with active route guidance: map with complete route
- i If the map is not moved in the 2D north orientation, a button appears that allows you to switch to this map orientation.



Navigation module (enlarged view)

- 1 Enters destination address
- 2 Calls up settings for **Route**, **View** and **Messages & tones**
- 3 Calls up all POI categories
- 4 Saves destination in favourites
- 5 Last destination
- 6 Quick-access for POI categories



The following options can be offered in the navigation module:

- If no entry has been saved yet: **Add Home/Work/Favs.**
- If entries have already been saved: **Home, Work** and **Favourites**

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



## Route

### Calculating a route

#### Requirements:

- The destination has been entered.
- The destination address is shown.
- **For Navigation with Electric Intelligence:**
  - Digital Extras from Mercedes are available.
  - You have a Mercedes me ID and the vehicle is linked to the user account.
  - The "Navigation with Electric Intelligence" Digital Extra is available and activated in the Mercedes-Benz Portal.

The Digital Extras "Navigation with Electric Intelligence", "Display of charging stations" and "Mercedes-Benz Charge" are required for optimum function.

- The **Schedule charging stops automatically** route option is switched on (→ page 333).
- **For online content and accessing a website:**
  - An active Internet connection is indicated in the status line on the central display with the  symbol.
  - The  **Browser** button is available.
  - Online content and an Internet address are available for the destination.
- ❗ This function is not available in all countries.
- ❗ Additional data volume is required to use the Internet browser .



Example: detailed display

- 1 Destination address or name of the POI
  - 2 Online content, e.g. images, opening times, ratings, weather information at the destination
- Further functions
- 3 Calculates the route and starts route guidance
  - 4 Selects alternative routes (**Schedule charging stops automatically** is switched off, only when route guidance is active)

The route with Electric Intelligence is automatically and intelligently calculated to the destination. This is updated during route guidance.




The route with Electric Intelligence contains the required charging stops as intermediate destinations. The charging stations are determined taking into account the driving distance, the estimated charging times and the set state of charge of the high-voltage battery when the charging station and the destination are reached.

- ▶ Select one of the options.
- ❗ When the **Schedule charging stops automatically** route option is switched off, a route without charging stations is calculated.


### Calling the destination

- ▶ If a telephone number is available, select **Call**.


### Calling up Internet address

- ▶ If an Internet address is available, select  **Browser**.

### Saving a destination as a favourite

- ▶ Select  **Add to favourites**.
- ▶ Select an option.

### Sharing the destination

- ▶ Select  **Share**.  
This option allows you to scan the displayed QR code.

### Searching for a charging stop near your destination

- ▶ Select  **Charging stop**.
- ▶ Select a charging stop.

### Searching for parking options near your destination

- ▶ Select  **Parking**.
- ▶ Select a parking option.

### Searching for POIs in the vicinity of the destination shown

- ▶ Select **In the vicinity**.
- ▶ Search via categories or enter a search entry.

### Starting route guidance

- ▶ Select  **Let's go!**.

### Overview: Navigation with Electric Intelligence

If the **Schedule charging stops automatically** route option is enabled, the optimal route based on time is calculated with the required charging stops. The charging stops are determined taking into account the route and charging times and are set as intermediate destinations for route guidance.

Navigation with Electric Intelligence constantly checks a large number of influencing variables, e.g. specifications for the climate control in the vehicle interior or changes in the weather. For each section of the route, the current energy requirement is calculated from the high-voltage battery. The multimedia system determines the ideal charging stations along the route based on availability and charging power.

For each charging stop, the required amount of energy and the expected charging time is calculated and displayed. If the driver wishes, they will be informed by a notification on their mobile phone when the required state of charge is reached. The high-voltage battery continues to charge until the process is interrupted by the driver.



- ❗ Observe the notes on charging the high-voltage battery (→ page 179).

You can influence the route calculated by the Navigation with Electric Intelligence.

The "Search for alternative charging station" option is available for this purpose (→ page 340).

- ❗ Navigation with Electric Intelligence attempts to shorten the total travel time, if necessary, by using the following charging strategies:
  - Charge twice briefly with high charging power instead of charging once for a long time with low charging power
  - Charge once briefly with low charging power to reach a charging station with higher charging power

Navigation with Electric Intelligence uses the following data:

- Online Route

Route calculation establishes an Online Route.

The online route is continuously updated during the journey, e.g. if traffic information is available.

- Specific vehicle information  
The current state of charge of the high-voltage battery and electrical consumption are taken into account, for example.
- Charging stations  
These are made available as intermediate destinations in the Online Route.

❗ This function is not available in all countries. You can watch an animation on this topic via the following link:

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

### Switching on the Electric Intelligence route option

▶ Tap on the navigation module .

▶  Where to?

▶ Select .

▶ Under **Route**, switch on the **Schedule charging stops automatically** route option.  
If the route has been calculated and the state of charge of the high-voltage battery is not sufficient to reach the destination, charging

stations are set automatically as intermediate destinations.

❗ This function is not available in all countries.

### Selecting settings for charging stations on the route

#### Requirements:

- The "Navigation with Electric Intelligence" Digital Extra is available and activated in the Mercedes-Benz Portal.

The Digital Extras "Navigation with Electric Intelligence", "Display of charging stations" and "Mercedes-Benz Charge" are required for optimum function.

### Setting the state of charge of the high-voltage battery when the charging station and destination are reached

▶ Tap on the navigation module .

▶ Select .

▶ Under **Route**, select the option **All route settings**.



- ▶ Under **Electric Intelligence**, select the route **Charge level at destination** or **Charge level at charging stations** options.
- ▶ Move the control knob to the left or right and set the preferred state of charge in percent (%).
- ▶ Select **Confirm**.

To reach a charging station, the system uses the battery capacity, e.g. up to 10 % residual energy content (state of charge) or even less. The **Min.** message appears on the central display. You can increase this state of charge for the arrival at the charging station and destination, e.g. to 25 % at the charging station and 50 % at the destination.

- ❗ In the event of increased energy consumption while driving, e.g. with headwind, the following options are available from the system:
  - The charging station is safely reached even at states of charge of less than 10 %.
  - Navigation with Electric Intelligence selects a closer charging station for the route.

- ❗ If a charging facility is available at the destination, the state of charge can be reduced to 10 % or below 10 %. The **Min.** message appears on the central display. Make sure that the **range monitor is switched on**.
- ❗ When planning a route, you can enter another destination or the return journey. The Navigation with Electric Intelligence then takes into account the required state of charge at the destination. This ensures that an optimal charging station or the new destination is reached safely on the onward journey.

#### Selecting a service provider



- ▶ Select **Charging station provider**.
  - ▶ Switch **Mercedes-Benz Charge** on or off. If the option is switched on, only charging stations that are payable with Mercedes-Benz Charge are taken into account when selecting the charging station. The service includes various charging station providers.
- or
- ▶ Switch on **All**. All charging stations known to the navigation system are taken into account when calculat-

ing routes with Electric Intelligence, regardless of the type of payment.

It may be necessary to register with the provider.

- ❗ If route guidance is active, the high-voltage battery is tempered before a charging stop depending on the state of charge and the battery temperature.

#### Selecting a charging station provider


- ▶ Select  **Where to?** .
  - ▶ Select  .
  - ▶ Set the filter, for example **In the vicinity**.
  - ▶ Select a provider, e.g. **IONITY** or **Mercedes-Benz Charging Network**.
- ❗ The service providers are not available in all countries.

#### Switching range monitoring on/off

When the Range Assistant is active, the range monitoring function supports the driver by displaying the maximum speed to be driven and energy-saving tips to help them reach their destination with the desired state of charge set by the cus-



tometer. Furthermore, the range is permanently monitored when this option is switched on.

- ▶ Select .
- ▶ Select **Settings**.
- ▶ Select **Navigation**.
- ▶ Select **All route settings**.
- ▶ Activate or deactivate **Range monitoring**.



**i** If necessary, the range monitor in the speedometer shows a recommended maximum speed and provides you with information in the driver display, e.g. the message **Avoid additional charging stop: drive less than 100 km/h**.  
If necessary, energy-saving tips are shown on the central display while driving.

- i** The recommended maximum speed is accounted for by the following driving systems:
  - Active Distance Assist DISTRONIC (→ page 218)
  - Cruise control (→ page 213)
- i** This function is not available in all countries.

## Showing charging stations on the map



### Requirements:

- For the display of online charging stations:
  - Digital Extras from Mercedes-Benz are available.
  - You have a Mercedes me ID and the vehicle is linked to the account.
  - The Digital Extra "Display of charging stations" is available and activated in the Mercedes me Portal.

- ▶ **Step 1:** select  on the digital map.
- ▶ **Step 2:** select .
- ▶ **Step 3:** select **Navigation**.
- ▶ **Step 4:** switch on the route option **Schedule charging stops automatically** under **View**.

### Displaying on-board charging stations

On-board charging stations are included in the map data of the MBUX multimedia system navigation. The data on these charging stations is not updated regularly. In contrast, online charging stations are transmitted to the vehicle via an Internet connection and displayed on the map.

- ▶ Select **POI symbols** .
- ▶ Select **All categories** .
- ▶ Switch on the **Charging stations** category.

You can recognise charging stations in the vicinity of the current vehicle position on the map by the following symbols:

- Online charging stations  
The charging power and availability are shown in the symbol for the charging station using arrows and a status indicator.
  - On-board charging stations  
The charging stations are shown on the map with white symbols without detailed information.
- i** The display of the online charging stations is not available in all countries.



## Paying for charging on a route with Mercedes-Benz Charge

### Requirements:

- The Mercedes-Benz Charge Digital Extra is available and booked in the Mercedes-Benz Portal.
- The Digital Extras "Display of charging stations" and "Mercedes-Benz Charge" are activated.
- **For Plug & Charge:** the Digital Extra "Plug & Charge" is activated.
- **To select the charging station using Navigation with Electric Intelligence:** the Digital Extra "Navigation with Electric Intelligence" is activated and the **Schedule charging stops automatically** option is switched on in the multimedia system.
- **For authentication at the charging station:** after activation in the Mercedes-Benz Portal, you have concluded a charging contract with your payment details with the respective contractual partners.

- **For authentication via app:** the Mercedes-Benz App is installed on the external device, e.g. tablet or smartphone.
- For charging stations without the ability to be enabled using the app, you have purchased an RFID card of the contractual partner.


 This function is not available in all countries.

Multimedia system:




 Observe the following information:

- Read the notes on charging the high-voltage battery at the charging station (→ page 179).
- Read the notes on charging the high-voltage battery at the charging station (→ page 183) and (→ page 184).
- **Before selection of a charging station:** the data for the charging stations is based on the online content available from the respective third-party provider.
- Observe the local information and conditions.



 With the Plug & Charge charging function from Mercedes-Benz Charge, you can charge the vehicle at public Plug & Charge-compatible charging stations. The charging process starts immediately when the charging cable is plugged into the charging station. No further authentication is required. Communication between the vehicle and the charging station takes place directly via the charging cable. This charging function is not available in all countries.

 **To select a charging station:** tap on a symbol on the map for a charging station or on a group of symbols for several charging stations.

or

 Select a charging station as a POI and accept it in the list .

or

 When route guidance is active with Navigation with Electric Intelligence, select a charging stop  in the route overview (→ page 340).



► Select **Details**.

When arriving at a charging station, the corresponding screen is automatically displayed if necessary.

The following information is displayed on the charging station (if available):

- Name of the charging station operator
- Address of the charging station
- Plug with availability and information about charging power
- Opening times
- Name of the charging station
- Travel time and distance of the charging station from the vehicle
- Authentication method
- Contact information of the charging station operator
- General costs and charging costs
- **Estimated charging costs**
- **Display of existing ratings**

**Additionally in the Mercedes-Benz App: rating option with up to five stars**

- Availability prognosis
- Information on green charging

Mercedes-Benz provides high-quality certificates of origin to ensure that an equivalent amount of electricity from renewable sources is fed into the grid for charging processes carried out via Mercedes-Benz Charge.

► Calculate the route (→ page 331).

- ❗ If the function is available, the start/stop of the charging process can be selected.

**Authentication at the charging station**

- ❗ During authentication, the contract data is checked at the charging station. If the check is successful, the charging process is authorised. Payment is made automatically via the payment method specified in the contract. Depending on the charging station operator, authentication is first carried out at the charging station. The charging cable of the charging station is then unlocked. Alternatively, first plug the charging cable connector into the

vehicle socket and then carry out authentication at the charging station.

- ❗ For some charging stations, unlocking the charging station via the app is not available. In this case use your RFID card to activate the charging process (if available).

► **In the app, select a charging station in the map menu.**

► Display the details using the widget (programme symbol).

► **Select Start charging process in the app.**

The charging process starts. In addition, the payment agreement saved with the third-party provider is authorised.

► If required, enter the PIN for personalisation.

► Confirm the action.

► If required, select the connector ID from the list shown.

The selected charge port is unlocked.

► Start the charging process.

The start of the charging process is shown.

► **To end the charging process:** press the charging cancellation button on the vehicle socket.



or

▶ End it on the charging station.  
The charging process is ended.  
Payment is processed automatically.  
If data for third-party providers is available,  
you will receive this information:

- Overview of the charging process
- Estimated cost

❗ There may be deviations in the estimated costs.

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

### ■ Overview of charging near destination

The function is available under the following conditions:

- The destination has been entered.
- The destination address is shown.
- **For Navigation with Electric Intelligence:**
  - Mercedes-Benz Connect is available.

- You have a user account on Mercedes-Benz Connect and the vehicle is linked to the account.
- The "Navigation with Electric Intelligence" Digital Extra is available and activated in the Mercedes-Benz Portal.  
The Digital Extras "Navigation with Electric Intelligence", "Display of charging stations" and "Mercedes-Benz Charge" are required for optimum function.

The function suggests the best possible charging stop near the destination from which you can reach the destination on foot.

The digital map shows the following information, for example:

- The route to the destination
- The route to the charging stop
- The pedestrian route from the charging stop to the destination and the walking time in minutes

The following functions can be used, for example:

- Select the charging station as the destination and calculate the route.
- Move the map and reset the map to the current vehicle position.
- Change the map scale.
- Select additional map symbols, e.g. for displaying traffic information or hazard warnings from Car-2-X.

### ■ Selecting a route type

#### Using trailer mode and online routes

The route is calculated as a fast route with a short journey time.

Trailer mode is available if a trailer has been coupled with the vehicle. If available, you can select online routes.

❗ Trailer mode and online routes are not available in all countries and for all vehicles.

▶ Tap on the navigation module .

▶  **Where to?**

▶ Select  .



▶ Under **Route**, select the option **All route settings**.

▶ **To use trailer mode:** select **Trailer mode**.  
A prompt is shown in the multimedia system.

▶ Confirm the prompt.  
The arrival time at the destination takes into account a reduced driving speed with trailer.

❗ When contact with the trailer socket is established (trailer/rear bicycle rack), a menu will automatically appear on the display.

The following options are available:

- Bicycle rack
- Small trailer
- Large trailer

The settings on this menu will improve the energy forecast at the start of the trip. As a result, charging stations will be selected more accurately, for example, and charging time will be optimised.

You can change the selection and make further settings (→ page 273).

❗ When travelling with a trailer, the route favours roads with sufficient lane width and no tight bends.

▶ **To use online routes:** switch on the option.

### Selecting route options

**Avoiding or using route sections, e.g. motorways or ferries**

▶ Tap on the navigation module .

▶  **Where to?**

▶ Select .

▶ Under **Route**, select the option **All route settings**.

▶ Switch the avoid option on/off.

**Avoid:** the option is activated. The route avoids motorways, for example.

**Use:** the option is deactivated. The route takes motorways into consideration, for example.

❗ The selected route options cannot always be taken into account. Therefore, a route may include a ferry, for instance, even though the **Avoid car trains and ferries** avoid option is

enabled. A message then appears and you will hear a corresponding message.

### Avoiding or using toll roads

The use of toll roads requires a usage fee (toll).

❗ With this setting, roads requiring toll stickers are also avoided or used.

▶ Select **Toll roads** .

▶ Activate or deactivate **Avoid all**.

If this option is activated, the route avoids toll roads and roads requiring a toll sticker.

If the option is switched off, the route takes toll roads and roads requiring a toll sticker into account.

❗ These route options are not available in every country.

### Selecting notifications for the route

#### Switching navigation announcements on/off

▶ Tap on the navigation module .

▶ Select .

▶ Under **Messages & tones**, select the **Alerts on or Messages off** option.



## Switching traffic announcements on/off

- ▶ Activate or deactivate **Announce traffic warnings**.

If available, traffic warnings are announced, e.g. before the end of traffic jams that pose a risk.

## Showing route information

When route guidance is active, the charging stops, entered intermediate destinations the destination are shown.

Depending on the route, traffic situation and available data, further information is displayed:

- Name, destination address
- Symbols for intermediate destination and destination
- Phone number (if available)
- Web address (if available)
- Traffic information

You can influence the route calculated by Navigation with Electric Intelligence by searching for an alternative charging station.


If you want to drive to an alternative charging station on the route, for example, you can search for it. If the charging station is suitable for the route, it will be accepted by the Navigation with Electric Intelligence.

- ▶ Display the destination information of the planned charging station.
- ▶ Select **Search alternative charger**.
- ▶ If necessary, filter the display of the charging stations according to the charging power.
- ▶ Select a charging station.

## Planning routes

- ▶ Tap on the navigation module .
- ❗ If there are already four intermediate destinations, delete an intermediate destination (→ page 341).

## During destination entry

- ▶ Select  **Search**.
- ▶ Enter the intermediate destination .  
After entering the destination and new calculation of the route, the map is shown again.

The route contains a new intermediate destination.

## During route guidance

- ▶ Select **Organize stops**.  
The current vehicle position, an automatically scheduled charging stop and the destination are displayed.
- ▶ Select **Add stop**.  
You can now enter the intermediate destination using the following options, for example:
  - Enter an address for the intermediate destination
  - Select a charging stop as a POI
  - Adjust the route on the map (→ page 342)
- ▶ Enter the intermediate destination.  
After entering the destination and new calculation of the route, the map is shown again.  
The route contains a new intermediate destination.



## ■ Editing a route with intermediate destinations


### Requirements:

- The destination and at least one intermediate destination have been entered.

### Changing the order of the destinations

- ▶ Tap on the navigation module .
- ▶ Select **Organize stops**.
- ▶ Move the destination up or down in the list.
- ▶ **Let's go!.**


### Deleting a destination

- ▶ In the route overview tap on  for a destination.

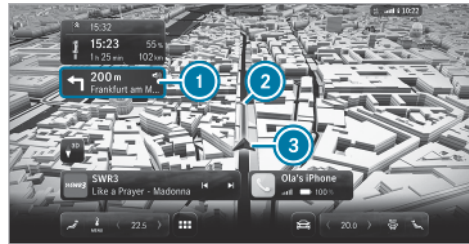
### Substituting an intermediate destination along the route

If an intermediate destination is entered and there are already four intermediate destinations, you will be asked to substitute one intermediate destination. A prompt appears.



- ▶ Select **Yes**.

- ▶ In the route overview, tap on  for the intermediate destination to be substituted. The new intermediate destination is added to the route.

### ■ Displaying the route list



Example: route list

- ① Upcoming manoeuvre with turning arrow, distance to manoeuvre, street number, street name
  -  Switches off navigation announcements
  -  Switches on navigation announcements
- Including the following route sections on the route to the destination

- ② Position of the driving manoeuvre on the map
- ③ Current vehicle position

The route sections are displayed in ①. The entries are sorted according to increasing distance from the current vehicle position. The route list is updated during the journey.

During a motorway journey, the motorway facilities ahead and the available service facilities are displayed within the route list. These include car parks, service stations and motorway exits, for example.

- ▶ Tap on ①.
- ▶ Swipe up or down.
- ▶ Select a route section or a service facility, for example. The map section is displayed.
- ① If desired, use the following functions:

- Select a destination on the map
- Select a POI in the vicinity of the map.
- Save the destination address of the service facility.



## Selecting an alternative route

### Requirements:

- A route has already been created.
- **Schedule charging stops automatically** is deactivated.

▶ Tap on the navigation module .

▶ Select **Routes**.

The original route is displayed and highlighted on the map.

Alternative routes are shown on the map with details of the journey time.

❗ A faster route may be shown as an alternative route that is considerably longer.

The following route information is shown for example:

- Driving time
- Time of arrival
- Distance to the destination
- **Charging stations with an indication of charging capacity**

- Driving time saved or lost compared with the original route

▶ When the alternative routes have been calculated, display the route in the navigation window by swiping to the right or left.

### Changing route type

▶ **Select the settings.**

▶ Switching the route type on or off.

### Avoiding or using route options

▶ Select .

▶ Switch the route options on or off (→ page 339).

▶ Confirm the settings with .

▶ **To start route guidance to the alternative route:** select **Start**.

▶ **To select an alternative route on the map:** touch any point on the alternative route. The alternative route is highlighted.

## Adjusting the route on the map

### Requirements:

- A route has already been created.

You can change the course of the original route on the map. A new intermediate destination is set in the process.

❗ If the maximum number of intermediate destinations is reached, the function is not supported. Press the **OK** button to confirm the message.

▶ Press lightly on the route with one finger and hold it in place.

A symbol appears. The route can be changed.

▶ Drag and hold the route with your finger to a desired map position. The new route is displayed. The route is recalculated.

When the finger is pulled away from the display, the intermediate destination is shown on the map.

▶ Accept the route with **Confirm** or reject it with **Cancel** and return to the original route.





## Starting the automatic service station search

### Requirements:

- ATTENTION ASSIST is activated (→ page 212).
- You are driving on a motorway.
- There are service stations along the route section ahead.

### Driving situation

The following notification is shown on the central display **ATTENTION ASSIST Tap here to search for rest areas..**


- ▶ Confirm the notification.  
The service station search starts. The available service stations along the route or in the vicinity of the vehicle's current position are displayed.
- ▶ Select a service station.
- ▶ Calculate the route with the service station as an  intermediate destination or as a  destination (→ page 331).

 This function is not available in all countries.

- ▶ **If there are already four intermediate destinations:** select **Yes** in the prompt.  
The selected service station is entered in the route overview at position 1. Intermediate destination 4 is deleted. Route guidance begins.

## Route guidance

### Notes on route guidance

 **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.

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

Route guidance begins once a route has been calculated. The road and traffic rules and regulations always have priority over multimedia system driving instructions. Driving instructions are, for example navigation announcements, changes in direction and lane recommendations.

Changes in direction and lane recommendations are shown in the navigation window.

The following displays and functions are also available in the navigation window, for example:

- Route list
- Destination information
- Traffic information
- Motorway facilities
- Car park search
- Emergency corridors

If you do not follow the driving instructions or if you leave the calculated route, a new route is calculated automatically.



If, for example, the route is diverted or the direction of a one-way road has been reversed, driving instructions may deviate from the actual traffic situation.

Alternatives may be offered during route guidance, e.g. before passing a motorway exit road. The additional driving time for the journey along the motorway exit is shown.

For this reason, you must always observe road and traffic rules and regulations during your journey as well as the prevailing traffic conditions.

The route can differ from the ideal route, for example in the event of roadworks or incomplete digital map data.

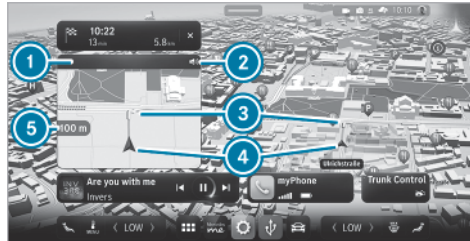
### Notes on satellite reception

The correct function of the navigation system depends amongst other things on reception of the satellite system used. In certain situations satellite reception can be impaired, malfunction or even not be possible, e.g. in tunnels or in multi-storey car parks.

### Changing direction overview

Upcoming driving manoeuvres are shown in the following displays:

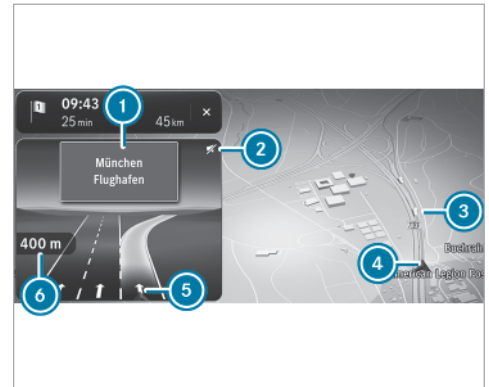
- Detailed image of the junction  
The display appears when you drive into a junction.
- 3D image  
The display appears when driving on junction-free, multi-lane roads, for example at motorway exits and motorway interchanges.



Example: 3D image of a roundabout

- ① Name of the street to turn into



- ② Switches navigation announcements on or off
- ③ Manoeuvre point on the map
- ④ Current vehicle position
- ⑤ Blue highlighted route (also on the map)
- ⑥ Current distance to the change of direction



Example: 3D image of motorway

- ① Motorway destination signposts



- ② Switches navigation announcements on  or off 
- ③ Manoeuvre point on the map
- ④ Current vehicle position
- ⑤ Blue highlighted route (also on the map)
- ⑥ Current distance to the change of direction

There are three phases when changing direction:

- Preparation phase

If there is enough time between the changes of direction, the multimedia system prepares you for the upcoming change of direction. A navigation announcement is issued, e.g. "Prepare to turn right".

The navigation window shows: the direction information or the name of the road which is to be turned into as well as the distance to the change of direction.

- Announcement phase

The multimedia system announces the upcoming change of direction, e.g. by announcing "Turn right in 300 m".

When the **Auto zoom** map orientation is switched off (→ page 352), a detailed representation of the junction or a 3D image of the upcoming change in direction appears in the navigation window.

- Change-of-direction phase

The multimedia system announces the imminent change of direction, e.g. by announcing "Now turn right".

Example 3D image: when the distance to driving manoeuvre ① is displayed with 0 m the driving manoeuvre is performed.

- ① Driving manoeuvres are also shown in the driver display and in the head-up display (if available).

## Lane recommendations overview



Example: lane recommendations

- ① Non-recommended lane (grey arrow)
- ② Recommended lanes (white arrow, blue background)

This display appears for multi-lane roads.




If the digital map contains the relevant data, lane recommendations are displayed in the navigation window.

Explanation of the displayed lanes:

- Recommended lane  
In this lane, you will be able to complete both the next change of direction and the one after that.
- Possible lane (not shown in the picture)  
In this lane, you will only be able to complete the next change of direction. The display is shown with a white arrow.
- Non-recommended lane  
In this lane, you will not be able to complete the next change of direction without changing lane.

During the change of direction, new lanes may be added. Bus lanes are also shown.



-  Lane recommendations are also displayed on the driver display and head-up display.

## Switching navigation announcements on/off



### Switching off

- ▶ Press the button on the MBUX multimedia system during a navigation announcement (→ page 307).  
The **Spoken driving recommendations have been deactivated.** message appears.

or


- ▶ In the route list for a driving manoeuvre select  (→ page 341).  
The symbol changes to .

### Switching on



- ▶ In the navigation window, select  for an upcoming driving manoeuvre.  
The current navigation announcement is played.  
The symbol changes to .

### Switching navigation announcements on or off during a phone call

- ▶ Tap on  in the bottom bar.
- ▶ Select **Settings**.

- ▶ Select **System**.
- ▶ Select **Audio**.
- ▶ Select **Voice output.**
- ▶ Activate or deactivate **Driving recommendations during call**.
- ▶ To exit the menu, select .

### Adjusting the volume of navigation announcements



- ▶ Tap on  in the bottom bar.
- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Audio**.
- ▶ Select **Voice output.**
- ▶ Select **Driving recommendation vol.** and set the volume.
- ▶ To exit the menu, select .

### Route guidance is active

- ▶ Set the volume during a navigation announcement on the steering wheel or on the control panel under the central display (→ page 285).





## Switching audio fadeout on or off during navigation announcements

- ▶ Tap on  in the bottom bar.
- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Audio**.
- ▶ Select **Voice output**.
- ▶ Activate or deactivate **Audio fadeout during navigation announcements**.
- ▶ To exit the menu, select .

## Repeating navigation announcements

### Requirements:

- A route has already been created.
  - Route guidance is active.
- ▶ In the navigation window, select  for an upcoming driving manoeuvre.
  - ▶ Select .
- The current navigation announcement is repeated.

## Overview of off-road status during route guidance

Due to roadworks, for example, there may be differences between the data on the digital map and the actual course of the road. In such cases, the multimedia system will temporarily be unable to locate the vehicle's current position on the digital map. The vehicle is off-road.

You can see the **Please follow the arrow display** and hear the corresponding navigation announcement. Route guidance may be restricted.

When the vehicle is back on a road known to the multimedia system, route guidance continues as normal.

## Route guidance with current traffic reports

### Traffic information overview

Current traffic reports are received with the Digital Extra Live Traffic Information (subscription).

- ❗ Live Traffic Information is not available in all countries.

The Digital Extra must be registered in the Mercedes me user account (→ page 407). This ensures that the term is free of charge.

Live Traffic Information updates the traffic situation at short, regular intervals via the Internet connection.

- ❗ There may be differences between the traffic reports received and the actual road and traffic conditions.

If you do not want to transmit the vehicle position, you have the following options:

- You can deactivate the Digital Extra in the Mercedes me user account.
  - You can have the Digital Extra deactivated at a Mercedes-Benz service centre.
- ❗ Hazard warnings are received via the Car-to-X Digital Extra (→ page 349).

## Displaying traffic information on the map

### Requirements:

- **Traffic incidents** and **Free-flowing traffic** are switched on (→ page 349).




- ▶ If necessary, display the map.

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.

Hazardous areas will be displayed 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)

## Showing traffic incidents on the route

### Requirements:

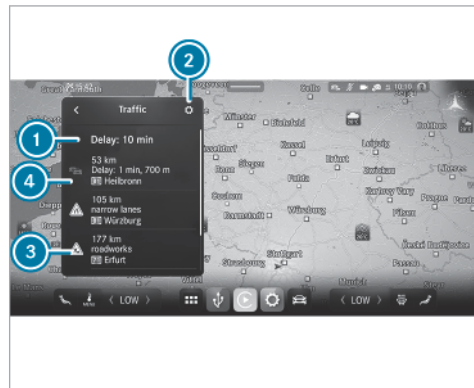
- The **Traffic incidents** display is switched on (→ page 349).

If there are traffic incidents along the route, these will be displayed in the list.

The display is along the entire route.

- ▶ Tap on the navigation module .

- ① You can use the voice control to find out about traffic events on the route. Ask, for example **How is the traffic on my route?** or **How is the traffic at home?**. A voice output is issued. If route guidance is not active, information may still be made available.



Example: traffic incidents on the route

- ① Total delay on the route
- ② Calls up the settings for traffic information
- ③ Traffic incident symbol
- ④ Congested section with symbol, distance from the current vehicle position, delay and length, road number and/or road name



- ▶ In order to see all of the traffic incidents along the route, scroll up or down in the list.

## ■ Switching the traffic information display on

Multimedia system:



- ▶ Under **View**, select the option **All map settings**.
- ▶ 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

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

- The vehicle is equipped with an MBUX multimedia system with navigation function.
- You have subscribed to the Digital Extra Live Traffic Information.

- The Digital Extra Car-to-X-Communication 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.

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

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.

- ▶ Switch on **Traffic incidents** (→ page 349).  
**Option is switched on:** all symbols are displayed.  
**Option is switched off:** symbols are only displayed 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 on (→ page 339), voice output can indicate a danger area.

## **Sending hazard warnings**

### **Reporting hazards manually**

- ▶ Tap on the digital map.
  - ▶ Select the Car-to-X transmission symbol. The **Thank you for supporting accident prevention!** message appears.
- ❗ Automatically detected hazard warnings are sent by the vehicle.

### **Route guidance with augmented reality**

#### **Display of additional information on the map**

**⚠ 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 351).



- ❶ House number
- ❷ Street name
- ❸ 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.

▶ Tap on the navigation module .

▶  **Where to?**

▶ Select .

▶ Under **View**, switch on the **Augmented reality video** option.

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  button

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 351).

▶ Tap on the navigation module .

▶  **Where to?**

▶ Select .

▶ Under **View**, select the option **All map settings**.

▶ Under **Augmented reality**, switch on the **Street names** and **House numbers** options. During route guidance, the activated options are shown as additional information in the camera image.

## Map

### ■ Setting the map scale

#### 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.

ⓘ You can set the unit of measurement of the map scale (→ page 316).

### ■ Moving the map

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

▶ **To reset the map to the current vehicle position:** select  **Centre** .



## Selecting the display of additional information on the map

▶ Tap on the navigation module .

▶  **Where to?**

▶ Select .

▶ Under **View**, select the option **All map settings**.

▶ Under **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 display.

- **Altitude**

The determined vehicles above sea level are displayed.


The display is not available in all countries.

- **Route description**

If the option is switched on and the journey is made without route guidance, the route monitor is displayed in the navigation window.

## Displaying the map version


▶ **Step 1:** tap on the navigation module.


▶ **Step 2:** select .

▶ **Step 3:** select **View**.

▶ **Step 4:** select **Map data version**.

The detail information is displayed.

 You can update the map data with the Digital Extra Online Map Update from Mercedes-Benz Connect (→ page 352).

 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

## Updating the map data

Requirements:

- You have a Mercedes me ID.
- Digital Extra Online map streaming is available and has been activated.

If the requirements are met, the digital map is automatically updated as Online map streaming. Alternatively, you can have the update carried out at a Mercedes-Benz service centre.

 The Digital Extra Online map streaming is only available in certain countries.

If the requirements are not met, the update can only be carried out at a Mercedes-Benz service centre.


## Setting the map scale automatically

▶ Tap on the navigation module .

▶ Select .

▶ Under **View**, select the option **All map settings**.





- ▶ 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-Benz Connect is available.
- You have a Mercedes me user account.
- The vehicle is linked to the user account and you have accepted the Mercedes-Benz Connect terms of use.  
Further information can be found at: <https://www.mercedes.me>
- Satellite maps are available.

- ▶ Tap on the navigation module .
- ▶  **Where to?**
- ▶ Select .
- ▶ Under **View**, switch on the **Satellite map** option.



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

## ■ Displaying online map contents

### Requirements:

- There is an Internet connection.
- Mercedes-Benz Connect is available.
- You have a Mercedes me ID.
- The vehicle is linked to your Mercedes me ID and you have accepted the Mercedes-Benz Connect terms of use.  
Further information can be found at: <https://www.mercedes.me>
- The Digital Extra is available and has been activated.

- ▶ Tap on the navigation module .

- ▶ Select .
- ▶  **Where to?**
- ▶ Under **View**, select the **All map settings** option.
- ▶ Switch on a Digital Extra, e.g. **Weather**.  
Current weather information is displayed on the navigation map, e.g. temperature or cloud cover.  
The information from the Digital Extras is not displayed 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** Vehicle damage due to failure to observe the maximum permissible clearance height

If the vehicle height exceeds the maximum permissible clearance height, the roof and other vehicle parts may be damaged.

- ▶ Please observe the indicated maximum clearance height.
- ▶ If the vehicle exceeds the permissible clearance height, do not drive in.
- ▶ Take the modified vehicle height in the case of roof superstructures or other carrier systems into account.

**i** This service is not available in all countries.

### Showing 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.

▶ Tap on the navigation module .

▶  **Where to?**

▶ Select .

▶ Under **View**, select the option **All map settings**.

▶ Switch on **Display Parking Places**.  
The parking options within the vicinity of the current vehicle position are shown.

### 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.

Mercedes-Benz does not guarantee the accuracy of the information provided in relation to the car park or parking area.

▶ 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 354).

▶ Tap on **P** on the digital map.

or

▶ In the route overview, select **P Parking spaces** (→ page 340).

▶ 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 car park, e.g.
  - 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 parking meters)
- Services/facilities at the parking option

► Calculate the route (→ page 331).

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.

### ■ Prior booking of a parking space

#### Requirements:

- The Navigation Services service is activated in your Mercedes me ID.
- The parking service is part of the scope of the Navigation Services.
- You have registered in the Mercedes-Benz Portal with Mercedes pay and the respective contract partners with your payment details for paying for parking.
- **Parking** is activated (→ page 354).

❗ This option is not available in all countries.

- Select a parking option on the digital 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 email address.

### Making use of or cancelling the booking

- Start the Mercedes-Benz 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:

- The Navigation Services service is activated in your Mercedes-Benz user account.
- The parking service is part of the scope of the Navigation Services.
- You have registered in the Mercedes-Benz Portal with Mercedes pay and the respective contract partners with your payment details for paying for parking.
- **Parking** is activated (→ page 354).

- ❗ 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 via the Mercedes-Benz 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.



## Telephone


### Telephony

#### Notes on telephony

#### WARNING

##### Danger of distraction


- ▶ Only operate integrated information systems and communication devices if the traffic situation permits this.
- ▶ 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 may slide or be thrown around and hit vehicle occupants. In addition, cup holders, open stowage spaces and mobile phone receptacles will not always be able to retain all objects that they contain in the event of an accident.

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

- ▶ Always stow objects such 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 125)
- Stowing and securing the mobile phone (→ page 137)



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




Telephone menu overview



- 1 Signal strength of the mobile phone network
- 2 Bluetooth® device name of the currently connected mobile phone/of the mobile phone
- 3 List of all connected Bluetooth® devices
- 4 Options/device manager
- 5  Call list  
 Contacts

-  Keypad
-  Messages

The telephone can also be operated using the  button on the steering wheel.

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

Bluetooth® profile of the mobile phone: with the PBAP (Phone Book Access Profile) profile, contacts are shown automatically in the multimedia system.

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 359).
  - Additional mobile phones are connected with the multimedia system via Bluetooth® (→ page 359).
    - 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 392).

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 314).

### Searching for a mobile phone

- ▶ Select .

- ▶ Select .

- ▶ Select **Devices**.

- ❗ Alternatively, the mobile phone can be connected using the cog symbol . After selecting the cog symbol, the device manager opens and a mobile phone can be selected.

### 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.

- ❗ When you connect an iPhone®, a query appears on the smartphone asking whether messages should be shown on the central display. If the request is confirmed, all incoming messages on the smartphone are shown as a pop-up on the central display. Further settings can be made in the Notification Centre (→ page 296).
- ❗ Up to 15 mobile phones can be authorised on the multimedia system.

- ❗ Up to four of the mobile phones activated in the driver's user profile are automatically reconnected.
- ❗ A mobile phone can be used by the driver and front passenger as a Bluetooth® audio device (→ page 392).
- ❗ For older mobile phone models, enter a 1 to 16-digit number code on the mobile phone and on the multimedia system for authorisation.

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®.

- ▶ Select .

- ▶ Select .


- ▶ Select **Devices**.

## ■ Switching between mobile phones

- ▶ Select .





The connected mobile phones are displayed in lists.

- ▶ Press  and select the desired mobile phone from the list.  
By selecting the list of a specific mobile phone, the associated phone contents are displayed.

The view can be switched to the other phone by selecting the other list.

The submenus in the **Phone** 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

- ▶ Select .
- ▶ Select .




### Activating a function

- ▶ Select the grey symbol for the required function 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

- ▶ Select .
- ▶ Select .
- ▶ 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 359).

- The list with the mobile phone on which voice recognition is to be started is selected (→ page 359).

### Starting mobile phone voice recognition

- ▶ Press and hold  in the lower control panel.  
Voice recognition is started for the currently selected mobile phone.

### Stopping mobile phone voice recognition

- ▶ Press  in the lower control panel.
- ❗ 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 293).

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 **Suggestion** tab.

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

## Selecting options for contact suggestions

### Requirements:

- The **Allow contact suggestions** option is switched on (→ page 293).
- The multimedia system has gathered sufficient data in order to show contact suggestions.

- ▶ Select .
- ▶ Select the  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

#### Making a call by entering numbers

- ▶ Select .
- ▶ 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  **Message**.

#### 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 to **Front**.

- **Private mode**

Transfer the call to 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 361).
- 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.

## 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/rejecting a waiting call

### Requirements:

- There is an active call (→ page 361).

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.

- ❗ The function and the behaviour depend on your mobile phone network provider as well

as on the mobile phone (see the manufacturer's operating instructions).

## Contacts





### Information about the contacts menu

Mobile phone contacts are automatically displayed when a mobile phone is connected to the multimedia system (→ page 359).

### Downloading mobile phone favourite contacts

If the mobile phone supports the function, the mobile phone's favourites are automatically displayed at the top of the contact list.

### Calling up contacts



- ▶ Select .
- ▶ Select  **Contacts**.
- ▶ Search for the contact via voice recognition 
- or
- ▶ Select  **Search 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.

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

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





### Calling a contact

- ▶ Select .
- ▶ Select .
- ▶ Press  and search for the contact using voice recognition
- or
- ▶ Select  **Search contacts**.
- ▶ Enter characters into the search field.



- ▶ Select the contact.
- ▶ Select the telephone number.  
The number is dialled.

### Selecting additional options in the call list

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

## Call list

### Call list

Depending on whether your mobile phone supports the Bluetooth® PBAP profile or not, the form and function of the call list differs as follows.

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


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


### Selecting additional options in the call list

- ▶ Select .
- ▶ Select  **Call list.**

### Deleting the call list

- ▶ Select .

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

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

## Text messages

### 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.




For more information on settings and supported functions of Bluetooth®-enabled mobile phones, please contact a Mercedes-Benz service centre or visit: <https://www.mercedes-benz-mobile.com/>.

Some mobile phones require further settings after being connected to the multimedia system to acti-





vate the messaging functionality (see manufacturer's operating instructions).

### Setting message displays


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

### Reading messages

#### Using the read-aloud function

- ▶ Select .
- ▶ Select .




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.

- ▶ Select .
- ▶ Select  **Message display**.
- ▶ Select .
- ▶ Use the voice control to speak the voice command **Send a message to** and name the desired contact.



#### Dictating text

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

#### Replying to a message in the messaging history



- ▶ Select .
- ▶ Select .

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

- ▶ Select .
- ▶ Select .



A message list is shown.

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

### Calling a message sender

- ▶ Select .
- ▶ Select .

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.

- ▶ Select .
- ▶ Select .

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

- ▶ Select .
- ▶ Select .

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

In-Car Calendar enables online services to be connected with the multimedia system.

The following function is available:

- **Calendar**  
Showing appointments and triggering actions, e.g. reading aloud, placing a call, navigating
- ❗ Certain functions are only available when the vehicle is stationary.

## ■ Calling up In-Car Calendar

### Requirements:

- A Mercedes me ID is available.
- The In-Car Calendar service is activated in the Mercedes me ID.
- You have a user account for an online service, e.g. for Office 365 or Gmail.

This is used for synchronising and providing appointments.

Multimedia system:



- ▶ Select [Apps](#).
- ▶ 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 **Apps**.
- ▶ Select **In-Car Calendar**.
- ▶ Select **Apps**.
- ▶ Select an appointment.

The following functions are available:

-  **Read aloud**
-  **Call**
-  **Navigate**
-  **Delete**

▶ Select a function.

- ❗ If appropriate appointment information is stored, functions are available.

Examples of this are:

- If a telephone number is stored for the appointment, **Call** is available.

- If a navigatable address for the appointment is stored in the online account, **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.

When operating the multimedia system, observe the legal regulations for the country in which you are currently present.

Apple CarPlay® enables the use of iPhone® functions via the multimedia system. Operation is either by means of the touchscreen or Siri® voice control. To activate voice control, press the  button on the lower control panel.

- ❗ Operation of the multimedia system remains possible via voice control by briefly pressing the  button on the lower control panel (→ page 285).

Only one iPhone® can be connected to the multimedia system using Apple CarPlay®.

As an active CarPlay® session restricts access to the iPhone® via MBUX, not all MBUX functions (including dialling from the address book) are fully available 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® varies 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 under the following link:

### ■ Information on Apple CarPlay®

Apple CarPlay® can be called up either via the main menu or the last-used applications next to the Home button.

If route guidance is started on the mobile phone whilst route guidance is also active on the multimedia system, the latter will be ended.

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

- ❶ The multimedia system only supports Apple CarPlay® wirelessly.  
The multimedia system supports a simplified set-up of Apple CarPlay® wirelessly via a USB connector from devices that have not yet been paired


#### Requirements:

- The current operating system version is used on the device (see the manufacturer's operating instructions).
- Bluetooth® is switched on the device (see manufacturer's operating instructions).
- The device has not yet been connected to the multimedia system.

- ▶ Connect the iPhone® to a USB port on the multimedia system using a suitable cable (→ page 391).
- ▶ Several messages may appear on the iPhone®, which must be confirmed for automatic pairing to start.
- ▶ After successful pairing with the multimedia system, a message appears on the multimedia system asking whether Apple CarPlay® should be used with the connected device, corresponding to the initial wireless connection. If this message is not confirmed or swiped away, the iPhone® will continue to charge.
- ▶ Select Apple CarPlay®.  
Apple CarPlay® is started (wireless).

- ❶ Removing the USB cable does not stop Apple CarPlay®, as the function is wireless. Further information on the wireless connection of Apple CarPlay® (→ page 367)

#### Exiting Apple CarPlay®

- ▶ Select .
- ❶ If Apple CarPlay® was not displayed in the foreground before disconnecting, the application starts in the background when next reconnected. Apple CarPlay® can be called up via either the main menu or the last-used applications next to the Home button.

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



#### Requirements:

- The device uses the current operating system version (see manufacturer's operating instructions).
- Bluetooth® is switched on on the device (see manufacturer's operating instructions).
- The device is "visible" for other devices.





- Bluetooth® is activated on the multimedia system (→ page 314).
- The device is being connected to Apple CarPlay® for the first time.

### Connecting an iPhone® to Apple CarPlay® via Bluetooth®


- ▶ Press  on the multifunction steering wheel. The telephone menu opens.
- ▶ Select .
- ▶ Select **Connect new device** and the iPhone® to be connected to Apple CarPlay® (→ page 359).

or

- ▶ Select . Display of all connected devices in the device manager.
- ▶ Select . Select the iPhone® to be connected to Apple CarPlay®.

- ▶ Confirm the use of Apple CarPlay® on the iPhone®.
- ▶ A message is displayed. Confirming the message starts Apple CarPlay® on the multimedia system.
- ① If the message is ignored or swiped away, the device remains connected via Bluetooth®.
- ① It is possible to switch the use of Apple CarPlay® (wireless) on or off at any time in the device manager.

### Exiting Apple CarPlay®

- ▶ Select .
- ① If Apple CarPlay® was not displayed in the foreground before disconnecting, the application starts in the background when next reconnected. Apple CarPlay® can be called up via either the main menu or the last-used applications next to the Home button.

### Calling up Apple CarPlay® sound settings

Multimedia system:



- ▶ Select **Sound**.
- ▶ 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®.
- ① If Apple CarPlay® should be restarted, select the Apple CarPlay® symbol in the device manager within either the telephone or media application.



## 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.

When operating the multimedia system, observe the legal regulations for the country in which you are currently present.

Mobile phone functions on devices running the Android operating system can be operated directly on the multimedia system using Android

Auto. It is operated using the touchscreen or voice control system. To activate voice control, press the  button on the lower control panel.

**i** The multimedia system can still be operated via voice control by pressing the  button on the lower control panel.

Only one mobile phone can be connected to the multimedia system using Android Auto.

The full range of functions for Android Auto is only possible with an Internet connection.

The availability of Android Auto and Android Auto apps varies depending on 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 under the following link:

### ■ Information on Android Auto

Android Auto can either be called up via either the main menu or the last-used applications next to the Home button.

If route guidance is started on the mobile phone whilst route guidance is also active on the multimedia system, the latter will be ended.

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

#### 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 359). If there was no prior connection, this will be established when using the mobile phone with Android Auto.

▶ Connect the mobile phone to a USB port on the multimedia system using a suitable cable (→ page 391).

▶ If pairing is successful, a message appears in the multimedia system. Confirm the message to use Android Auto.



▶ Select Android Auto.

or

- ▶ Open the device manager (→ page 359).
- ▶ Start Android Auto using the relevant symbol next to the device name.

### Exiting Android Auto

▶ Select .

- ❗ If Android Auto was not displayed in the foreground before disconnecting, the application starts in the background when next reconnected. Android Auto can be called up via either the main menu or the last-used applications next to the Home button.

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



#### Requirements:

- The device uses the current operating system version (see manufacturer's operating instructions).
- The device supports the Android Auto function (wireless).


- Bluetooth® is switched on on the device (see manufacturer's operating instructions).
- The device is "visible" for other devices.
- Bluetooth® is activated on the multimedia system (→ page 314).

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

### Connecting a mobile phone to Android Auto via Bluetooth®

- ▶ Press  on the multifunction steering wheel.  
The telephone menu opens.
- ▶ 
- ▶ Select **Connect new device** and the mobile phone to be connected to Android Auto (→ page 359).

or

- ▶ Select .
- Display of all connected devices in the device manager.

▶ Select .

Select the mobile phone to be connected to Android Auto.

Depending on the mobile device, it may take a few seconds before the message appears.

Confirming the message starts Android Auto on the multimedia system.

▶ Select Android Auto.

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

- ❗ If a mobile phone is already connected via Bluetooth®, it is possible to use the device manager to connect another mobile phone via Bluetooth® for the purpose of using Android Auto (→ page 359).

### Exiting Android Auto

▶ Select .



- ❗ If Android Auto was not displayed in the foreground before disconnecting, the application starts in the background when next reconnected. Android Auto can be called up via either the main menu or the last-used applications next to the Home button.

### ■ Calling up the Android Auto sound settings

Multimedia system:



- ▶ Select **Sound**.
- ▶ 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.

- ❗ If Android Auto should be restarted, select the Android Auto symbol in the device manager.

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

### ■ Vehicle data which can be transferred

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 326).

The following driving status data is transmitted:

- Transmission position engaged

- Distinction between parked, standstill, rolling and driving
- Day/night mode of the driver display
- Drive type
- Vehicle temperature

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
- Height

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




## Mercedes-Benz Connect calls

### ■ Calling the Mercedes-Benz Customer Centre

#### Requirements:

- Access to a mobile phone network is available.
- Sufficient network coverage is provided by the mobile phone network providers in the respective region.
- For automatic transmission of vehicle data: the vehicle is switched on (→ page 165).

► Call up the  vehicle settings (Control Centre) (→ page 289).

► Select **Mercedes-Benz Connect**.

- After confirmation, the multimedia system sends the required vehicle data. The data transfer is shown in the display.
- A prompt for selecting the subject area for the request appears in order to place a call to a suitable department of the Mercedes-Benz Customer Centre.

► Select request.

► Select a service via the voice dialogue system (depending on the selection of the request in the previous step).

You will be put in touch with a contact person at the Mercedes-Benz Customer Centre.

❗ The availability of the individual selection options is country-dependent.

#### Additional option to start the Mercedes-Benz Connect call:

► **Via the voice control of the MBUX Virtual Assistant:** use voice commands (→ page 299).

or

► **Via the contact address book:** select **Mercedes-Benz Connect**.

The following selections may be available:

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

It is possible to obtain information on the following topics, for example:

- Activation of Digital Extras
- Operating the vehicle
- Nearest Mercedes-Benz service centre
- Further products from Mercedes-Benz

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

#### Requirements:

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

**Accident:** no requirements.

#### Breakdown:

- The vehicle is stationary.
- The hazard warning lights are switched on.

Additional requirements may apply for collision detection with a parked vehicle (→ page 202).

❗ This function is not available in all countries.



#### Accident/breakdown detection procedure

- The vehicle has detected an accident/breakdown situation (→ page 202).
- If an accident/breakdown is detected, the emergency guide shows safety instructions in the multimedia system display. This may take a few seconds.

Depending on the severity of the accident, an automatic emergency call can be initiated. This has priority over all other active calls (→ page 379).

- ▶ Exit the emergency guide display.  
A prompt appears asking whether you would like to receive support from the Mercedes-Benz Customer Centre.
- ▶ **Support from the Mercedes-Benz Customer Centre directly after breakdown/accident detection:** select [Call](#).
  - The vehicle data is transferred automatically after your consent or if the "Breakdown Management" Digital Extra is activated (→ page 376).

- The Mercedes-Benz Customer Centre takes your call and organises the Accident/Breakdown Assistance.

You may be charged for these services.

- ▶ **Support from the Mercedes-Benz Customer Centre at a later time:** select [Call later](#).

The message will disappear and reappear at a later time.

**Additional prompt when the "Guard 360" Digital Extra is active:** If the "Guard 360" Digital Extra is active, a message may appear in the multimedia system when the vehicle is switched on after a collision is detected, indicating the affected area and the severity of the impact.

- ▶ **Support from the Mercedes-Benz Customer Centre directly after collision detection:** select [Call](#).
- ▶ **No support from the Mercedes-Benz Customer Centre required:** reject the prompt.

#### ■ Arranging a service appointment via a Mercedes-Benz Connect call

If you have activated the Intelligent Status & Service Digital Extra, relevant vehicle data is automatically sent to the Mercedes-Benz Customer Centre. You will then receive individual recommendations regarding the maintenance of your vehicle.

Regardless of whether you have activated the Intelligent Status & Service Digital Extra, after a certain period of time the multimedia system will remind you of a service that is due. A prompt appears asking if you would like to make an appointment.

- ▶ **To arrange a service appointment after the maintenance enquiry:** select [Call](#).

Service call procedure:


- After your confirmation, the vehicle data is sent.
- The Mercedes-Benz Customer Centre takes your preferred appointment date.



- The Mercedes-Benz Customer Centre forwards the information to the service outlet of your choice.
- The desired service outlet contacts you to confirm the appointment and make any necessary detailed arrangements.

▶ **To hide a maintenance message:** select **Call later** after the maintenance message appears. The message will disappear and reappear at a later time.


### Arranging a service appointment without a maintenance enquiry:

- ▶ Select .
- ▶ Select the **Service** menu item.
- ▶ Start the call.

### Consenting to data transfer for a Mercedes-Benz Connect call

#### Requirements:

- There is an active Mercedes-Benz Connect call via the multimedia system (→ page 372).

 The prompt to confirm data transfer does not appear in all countries.

If the Accident/Breakdown Management Digital Extras are not activated, the prompt to confirm the data transfer appears.

- ▶ Select **Yes**.
  - The relevant vehicle data is sent automatically (→ page 374).
- or
- ▶ Select **No** and confirm.
  - Only call control data is transmitted (→ page 374).

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

### Data transmitted during a Mercedes-Benz Connect call

The data transferred during the Mercedes-Benz Connect call depends on:

- The reason for initiation of the call
- The service that is selected in the voice control system
- The activated Digital Extras

You can find out which data is transmitted with the Digital Extras in the currently valid terms of use and the data protection notes for Mercedes-Benz Connect. You can find these in your Mercedes me ID.

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

- The vehicle is switched on (→ page 165).
- 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
- Activated Digital Extras
- The service selected in the voice control system



- ❗ A prompt for consent to data transmission is only made if the corresponding Digital Extra has not been activated.
- ❗ The scope of the transmitted data depends on the vehicle model and its equipment. For technical reasons, not all data is available at all times.

### Data transmission when Digital Extras are not activated

If no Digital Extras are activated and the data protection prompt has been confirmed, the following data are transmitted:

- 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 the Accident and Breakdown Management selection has been made via the voice dialogue system and no Digital Extra has been activated, but the data protection prompt has been confirmed, the following data can be additionally requested 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:

- 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 transmission when Digital Extras are activated

Only in the second step and only for the respective activated Digital Extras, further case-specific data is transmitted in order to enable an optimal service.

An overview of the data transferred is contained in the data protection notes for the Digital Extras. You can find these in your Mercedes me ID.

### Data processing

The data transmitted as part of the call will be deleted from the transmitting systems once the call has been completed, provided they are not used for other activated Digital Extras.

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. Please note the data protection note on the Mercedes-Benz website at <https://www.mercedes.me> or in the announcement immediately after a call to the Mercedes-Benz Customer Centre is connected.

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

## Mercedes-Benz Connect

### ■ Information on Mercedes-Benz Connect

- ❗ Mercedes-Benz Connect or individual Digital Extras are not available in every country. Find out at a Mercedes-Benz service centre if these functions are available in your country.

Mercedes-Benz Connect comprises a number of Digital Extras (→ page 404).

You can use the following Digital Extras via the multimedia system, for example:

- Accident Recovery (call via [Mercedes-Benz Connect](#) or the situation-dependent display in the multimedia system)

- Breakdown Management (call via [Mercedes-Benz Connect](#) or the situation-dependent display in the multimedia system)
- Mercedes-Benz Emergency Call System (automatic emergency call and SOS button)

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

The SOS button is located in the vehicle's overhead control panel (→ page 380).

You can call the Mercedes-Benz Customer Centre using the multimedia system (→ page 372).

In an emergency, use the emergency call system in the vehicle (→ page 379) or contact the standard national emergency numbers.

Please note the terms of use and data protection notes for Mercedes-Benz Connect and Digital Extras. You can find these in your Mercedes me ID.

## ■ Accident and Breakdown Management Digital Extras

- ❗ The Accident and Breakdown Management Digital Extras are not available in every country. Contact a Mercedes-Benz service centre to find out whether this function is available in your country (→ page 404).

The Accident and Breakdown Management can include the following functions:

- Supplement to the Mercedes-Benz emergency call system (→ page 379)  
If necessary, the contact person at the Mercedes-Benz emergency call centre forwards the call to 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 372)




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.

- Supplement to the Intelligent Status & Service Digital Extra

With the Intelligent Status & Service function, certain wear and fault messages are detected by the service provider, so long as these can be clearly interpreted and are made available for monitoring by diagnostics-capable components.

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.

-  These Digital Extras 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 377).

You can find more information on Mercedes-Benz Connect and Digital Extras in the Mercedes-Benz Portal: <https://me.secure.mercedes-benz.com>

## Emergency call systems

### ■ Available emergency call systems

Two types of emergency call systems are available in the vehicle:

- Mercedes-Benz emergency call system
- 112 emergency call system (EU eCall)

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.

### Notes on the availability of emergency call systems:

- The Mercedes-Benz emergency call system is generally available for your vehicle for 10 years ex works.
- 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 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.



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

**The following applies for both emergency call systems:**

- Both emergency call systems help locate an accident site in places that are difficult to

access. They can thus help to reduce the time between an accident and the arrival of emergency services at the site of the accident.

- 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 381).
- 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 emergency call systems**

Mercedes-Benz emergency call system	112 emergency call system (EU eCall)
<ul style="list-style-type: none"><li>• is permanently logged into the mobile phone network.</li><li>• transmits automatic and manual Mercedes-Benz emergency calls 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>• only logs into the mobile phone network after a manual or automatic emergency call has been triggered.</li><li>• sends automatic and manual emergency calls directly to public coordination centres.</li></ul>



## Deactivation of the Mercedes-Benz emergency call system

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 abroad, support can be provided in a language of your choice and requirement.
- Several transmission technologies ensure fast and reliable transmission of the accident data.
- The Mercedes-Benz emergency call system is permanently logged in to the mobile phone network. This speeds up the process of placing an emergency call and the transmission of accident data. This reduction in time makes it possible to initiate rescue, recovery or towing measures more quickly.

- With a Mercedes-Benz emergency call, the transmission of accident data to the public coordination centre only occurs following approval by the customer.
- If there is no voice contact with the vehicle occupants after an automatically triggered emergency call, the accident data is transmitted directly to the public coordination centre.
- If the Mercedes-Benz emergency call centre is not available, the 112 emergency call is carried out automatically.

## ■ Display messages in the emergency call system

The following messages appear in the display of both emergency call systems:

-  **SOS**: Display during an active emergency call.
- **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.

In case of 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 appears on both the driver display and the central display .
- The SOS button lights up red continuously.

## ■ Triggering an emergency call automatically

### Requirements:

- The vehicle is switched on (→ page 165).
- The starter battery is sufficiently charged.



An emergency call is triggered automatically:

- 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 (→ page 226)

▶ **If the traffic situation and level of danger allow it:** stay in the vehicle until the voice connection with the emergency call centre has been established.

Procedure for an automatic emergency call:

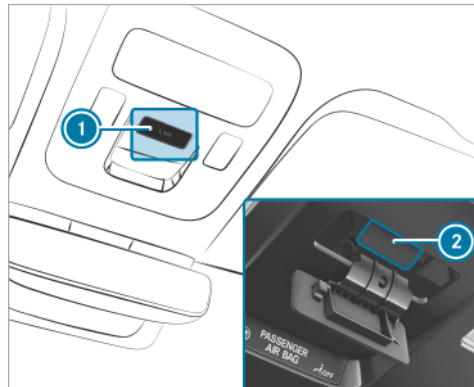
- The system establishes a voice connection to the emergency call centre.
- Accident data is transmitted to the emergency call centre.
- The SOS button in the overhead control panel flashes until the emergency call is finished.
- On the basis of the call, the emergency call centre decides whether it is necessary to call rescue teams and/or the police to the accident site.

- If no vehicle occupant answers, the emergency call centre immediately sends an ambulance to the vehicle.

If there is no connection to the public emergency call centre, a corresponding message appears on the display.

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

## Triggering an emergency call manually



- ① SOS button cover
- ② SOS button (emergency call system)

▶ **To use the SOS button in the overhead control panel:** press SOS button ② for at least one second.

or



- ▶ **Via the voice control of the MBUX Virtual Assistant:** Use a voice command, e.g. Trigger an emergency call .
- ▶ **If the traffic situation and level of danger allow it:** stay in the vehicle until the voice connection with the emergency call centre has been established.

Procedure for a manual emergency call:

- The system establishes a voice connection to the emergency call centre.
- Accident data is transmitted to the emergency call centre.

- The SOS button in the overhead control panel flashes until the emergency call is finished.
- 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, the emergency call centre immediately sends an ambulance to the vehicle.

If there is no connection to the public emergency call centre, a corresponding message appears on 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 377) 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>• <b>Digital Extras available or not</b></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.
- ❗ 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.

### ■ 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, paragraph 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 by the 112 emergency call system (EU eCall) are the relevant emergency call inquiry terminals. These are configured by the appropriate authorities of the respective country in which they are located to



first accept and subsequently process emergency calls to the standard European emergency call number 112.

### 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 Datenschutz, Mercedes-Benz Group AG, HPC E600, D-70546 Stuttgart, Germany

## In-Car Apps

### In-Car Apps overview

Via the In-Car Mercedes-Benz Store, additional apps can be installed and used in the vehicle. The available In-Car Apps come from various categories, such as entertainment, news or games.

A pre-requisite for the installation of In-Car Apps is a Mercedes me ID and the activated In-Car App Pass Digital Extra. If no Mercedes me ID is available, one must be created and connected with the vehicle.

If the In-Car App Pass Digital Extra is not activated in the vehicle, it is possible to order it via the Mercedes-Benz Store. As soon as the corresponding package has been ordered, the In-Car App Pass Digital Extra is automatically activated. The In-Car App Pass enables access to our app library as well as the additional use of apps in the vehicle.

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



- ❗ The Emotional Modes app only functions when the vehicle is parked.

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

### Requirements:

- A Mercedes me ID is available.
- The vehicle is linked to a Mercedes me ID.
- The terms of use have been accepted.
- The In-Car App Pass Digital Extra is activated in the vehicle.

Multimedia system:



- ▶ Select **Store**.
- ▶ 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.

When operating the multimedia system, observe the legal regulations for the country in which you are currently present.

**⚠ 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.

When operating mobile communication devices in the vehicle, observe the legal regulations for the country in which you are currently present.



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 386)
- Using Bluetooth® or Wi-Fi with a data-enabled mobile phone

- **Vehicles without a communication module:**

- Using Bluetooth® with a data-enabled mobile phone
- 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 ID is available.

- The vehicle is linked to a Mercedes me ID.
- The Entertainment Package is active.
- The Comfort Data Volume service is active.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **Manage Internet access**.
- ▶ Select **Search for Internet access** in the Internet device manager.
- ▶ Select **Data package**.

For most Digital Extras, data volume can be obtained when procuring the Digital Extras.

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

If the data volume is reached, availability of the Digital Extras is limited.

Depending on the vehicle equipment, it is possible to obtain an Entertainment Package via the Mercedes-Benz Store. In order to use the data

package included in this, use the Mercedes-Benz app to take out a separate contract with a mobile network provider which can be cancelled at any time and for which no costs are incurred. The availability of this option is dependent on the country.

If a data package option is not available or cannot be upgraded, you can purchase data volume directly from the mobile phone network provider for a fee. To do this, connect the smartphone with the MBUX hotspot and open the browser in order to be redirected to the homepage of the third-party provider. The availability of this option is dependent on the country.

**i** A Mercedes-Benz service centre can provide further information on whether it is possible to obtain data volume for a fee **directly from a mobile phone network provider** in the respective country.

**i** Alternatively, and if available, you can use the Wi-Fi hotspot tethering function of a mobile phone via Wi-Fi or Bluetooth®.



- ❗ In the case of external Wi-Fi hotspots which are encrypted using TKIP, it is not possible to carry out online software updates.
- i If there is no Internet connection in the vehicle or if the Mercedes-Benz App is not installed, as an alternative, the QR code displayed when calling up the animation can be scanned in order to play the animations. The data tariff of the mobile communication device is used for the data connection.

### ■ Disconnecting the automatic Internet connection via communication module

#### Requirements:

- Wi-Fi or Bluetooth® tethering are available in the vehicle.

Multimedia system:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **Manage Internet access**.

▶ Select the settings in the line of **Data package**.

▶ **To disconnect automatically:** select **Delete entry**.

- ❗ The communication module is removed from the list of known hotspots, but can be reconnected manually at any time (→ page 386).

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 WLAN

#### Requirements:

- The Wi-Fi function is activated on the multimedia system (→ page 314).
- 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:



- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **Manage Internet access**.

- ❗ 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 .
- ▶ 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 314).



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.

## ■ Setting up an Internet connection via Bluetooth®

### Requirements:

- The mobile phone supports the Bluetooth® profile PAN (**P**ersonal **A**rea **N**etwork).
- The mobile phone is connected to the multimedia system via Bluetooth® (→ page 359).
- Internet access via Bluetooth® is activated (see the manufacturer's operating instructions).


Multimedia system:




- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **Manage Internet access**.


 This function is country-dependent.

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

- ▶ Select the mobile phone with the  Bluetooth® symbol.

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

- ▶ Select .
- In the list displayed, all mobile phones already known to the multimedia system are shown. New devices can be set up using the phone application.
- ▶ Connect the mobile phone using Bluetooth® (→ page 359).

 If a new mobile phone is connected using Bluetooth®, this is also used for the telephone application.

The Internet connection via Bluetooth® is restricted or does not function in the following cases:


- The mobile phone is switched off.
- The mobile phone network coverage is insufficient.
- Mobile data use is deactivated on the mobile phone.
- The Bluetooth® function on the multimedia system is switched off and the mobile phone is to be connected via Bluetooth®.
- The Bluetooth® function is switched off on the mobile phone and the mobile phone is to be connected via Bluetooth®.
- Neither the mobile phone network nor the mobile phone allow simultaneous use of a telephone and an Internet connection.
- The mobile phone has not been enabled for Internet access via Bluetooth®.



## ■ Cancelling Internet access permission for a mobile phone

Multimedia system:





- ▶ Select **Settings**.
- ▶ Select **System**.
- ▶ Select **Internet and Bluetooth**.
- ▶ Select **Manage Internet access**.
- ▶ Select options  next to the name of the mobile phone.
- ▶ Select **Delete configuration**.
- ▶ Select **Yes**.

## Connection status

### ■ Connection status overview

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

- : a Wi-Fi device is selected as Internet access.

- : a Bluetooth® device is selected as Internet access.
- Mobile communications 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.

Connection status display

- When connecting via Wi-Fi, the connection status, device name and strength of the connection are displayed.
- When connecting via a Bluetooth® device, the connection status and device name are displayed.
- When connecting via the communication module, the following status information appears:

- Type of network
- Strength of the connection
- Status (online, offline, data volumes available or used, limited service)
- For vehicles with a communication module, the connection data of non-user paid Digital Extras can be displayed via **Mercedes me connect**.

## 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.



**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 wide range of USB mass storage devices available on the market, playback cannot be guaranteed for all USB mass storage devices.
- MP3 players must support Media Transfer Protocol (MTP).
- Files with the corresponding format can be played back from the USB mass storage device in Dolby Atmos.

### **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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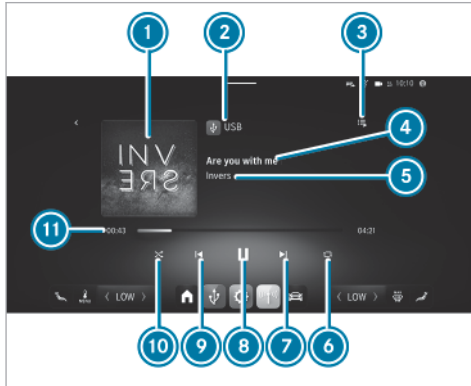


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## Overview of the media menu



- ① Album cover
- ② Active media source
- ③ Playlists and categories
- ④ Title
- ⑤ Album name, artist
- ⑥ Settings
- ⑦ Next track or fast forward

- ⑧ Pauses playback
- ⑨ Previous track or fast rewind
- ⑩ Controls playback
- ⑪ Elapsed playing time of the track, timeline and total playing time of the track

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
- ⓘ Further information on:
  - Overview of the zero-layer (→ page 289).
  - Operating the zero-layer (→ page 290).

## Connecting the data storage medium to the multimedia system

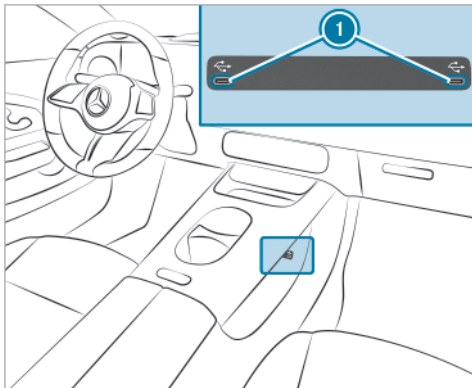
### Connecting a USB mass storage device

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

High temperatures can damage USB mass storage devices.

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





The multimedia connection unit is found under the storage compartment in the centre console and has two type C USB ports ①. Depending on the vehicle equipment, there are further USB ports in the storage compartment under the armrest.

- ▶ 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 device.
- The audio device supports the Bluetooth® audio profiles A2DP and AVRCP.
- The audio device is "visible" for other devices.

Multimedia system:

→ » Media » Bluetooth

### 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 device.

- ▶ Select **No, only music**.  
The Bluetooth® audio device is connected with the multimedia system.

### Connecting a previously authorised Bluetooth® audio device

- ▶ 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:

→ » Media

- ▶ Select a media source.

## Controlling media playback

Multimedia system:

→ » Media

- ▶ 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 .

❗ You can also control media playback on the zero layer using the control menu displayed (→ page 289).

## Additional options for setting media playback

Multimedia system:

  ▶▶ Media

### 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:

 ▶▶ Media ▶▶ 

▶ Select a category.

## Using the keyword search

Multimedia system:

 ▶▶ Media

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 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 operation on the front passenger display (only vehicles with MBUX Hyperscreen)

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

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 389)
- Information on copyright protection and trademarks (→ page 390)
- Overview of the media menu (→ page 391)

Bluetooth® headphones can be connected to the MBUX multimedia system on the front passenger display.

**⚠ 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.

- ❶ 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).
- ❷ 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 on the front passenger display (only vehicles with MBUX Hyperscreen)

#### 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.
- ▶ To connect Bluetooth® headphones to the front passenger display: press  in the menu line and select the desired headphones.

The following functions are available:

- Controlling media playback (→ page 392)
- Options for setting media playback (→ page 393)
- Starting a search in categories (→ page 393)
- Using the keyword search (→ page 393)

## Radio

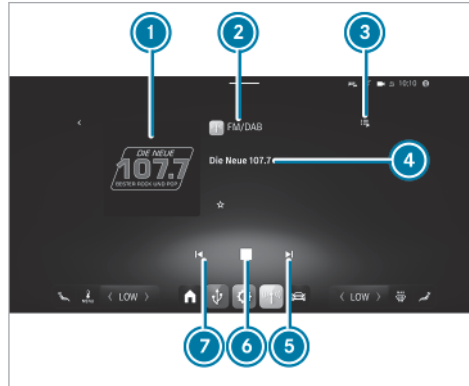
### Switching on the radio

Multimedia system:



- ▶ 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 list or categories
- ④ Station name or frequency
- ⑤ Next station
- ⑥ Stops playback
- ⑦ Previous station

- ❗ 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 289).
  - Operating the zero layer (→ page 290).

### Setting the frequency band

Multimedia system:




- ▶ Select a frequency band or a favourite.



## Selecting a radio station

Multimedia system:


→  →  Radio

- ▶ Swipe to the left or right on the control element or select a radio station.
- ▶  You can also set the previous/next radio station in the zero layer using the control menu displayed (→ page 289).

## Calling up the radio station list

Multimedia system:


→  →  Radio

- ▶ 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:

→  →  Radio

- ▶ 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:


→  →  Radio

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

## Storing radio stations

Multimedia system:

→  →  Radio



- ▶ Select a radio station.
- ▶ Select .

## Managing favourites

Multimedia system:

→  →  Radio → Favourites

### 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.

- ① The slide show is available for DAB+ channels that broadcast additional information.

- ▶ Press the station picture on the central display. The image is enlarged and, if available, displayed with the additional information of the slide show.

### 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 service 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

- ❗ In terms of the radio announcements, depending on the station you can choose between, e.g. [Traffic information service \(TA\)](#), [Travel](#) and [Warning](#).

- ▶ Switch an announcement on ☒ or off.

## 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

- ❗ 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 seven loudspeakers. It is available for all functions in the radio and media modes.

#### ❗ Tip

The call can also be made from other audio sources. To do this, 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**.

### ■ Switching loudness normalisation on/off

Multimedia system:



- ▶▶ **Loudness normalisation**

The function compensates for differing loudness when changing between audio sources and within an audio source. Several levels are available for this purpose. The currently set level is displayed.

Loudness normalisation can also be switched off.

- ▶ Switch on one level.

or

- ▶ Switch off loudness normalisation.

### ■ Adjusting the balance/fader

Multimedia system:



- ▶▶ **Balance and Fader**

#### Adjusting the balance

- ▶ In the grid shown, move the volume distribution between the right and left speakers in the vehicle.  
The volume is distributed between the right and left-hand speakers.

#### Adjusting the fader

- ▶ In the grid shown, move the volume distribution between the front and rear speakers in the vehicle.  
The volume is distributed between the front and rear speakers.

### Burmester® 3D surround sound system

#### ■ Information on the Burmester® 3D surround sound system

The Burmester® 3D surround sound system is equipped with 17 loudspeakers.

- ① The navigation announcements from the speakers close to the driver's ears can be set in the system settings (→ page 346).  
Telephony with the speakers close to the driver's ears can be set in the telephone menu (→ page 361).
- ① 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 on the Burmester® 3D surround sound system

Multimedia system:



#### Adjusting sound settings

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



## ■ Adjusting the treble, mid and bass settings on the Burmester® 3D surround sound system

Multimedia system:

➔  ➔ Media ➔  ➔ Equaliser

▶ Set Treble, Mid or Bass.

## ■ Switching loudness normalisation on the Burmester® 3D surround sound system on or off

Multimedia system:

➔  ➔ Media ➔  ➔ Equaliser

▶ Loudness normalisation

The function compensates for differing loudness when changing between audio sources and within an audio source. Several levels are available for this purpose. The currently set level is displayed.

Loudness normalisation can also be switched off.

▶ Switch on one level.

or

▶ Switch off loudness normalisation.

## ■ Adjusting the balance and fader on the Burmester® 3D surround sound system

Multimedia system:

➔  ➔ Media ➔ 

▶ 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® 3D surround sound system


Multimedia system:

➔  ➔ Media ➔ 

### Setting an existing sound profile

- ▶ Select a sound profile.

### Setting up a personal sound profile


- ▶ Select **Personal sound profile** and select .
- ▶ Select **Reconfigure**.  
The setup assistant will be restarted.

### 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** and .
- ▶ Adjust the desired settings.
- ❶ 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 on the Burmester® 3D surround sound system

Multimedia system:

- ➞  ➞ **Media** ➞  ➞ **Sound focus**
- ▶ Select a seat or seat row for the sound focus.  
The sound focus is activated.
- or
- ▶ Select the seat or seat row again.  
The sound focus is deactivated.

## Sound Experience

### ■ Information about Sound Experience

Your journey will be an acoustic experience. For this purpose, the active Sound Experience accompanies certain situations in the vehicle with selected sounds.

In the vehicle interior, for example, the following situations are accompanied by selected sounds:

- Arrival in the vehicle
- Starting the drive system
- Vehicle acceleration
- Recovery of energy from the braking procedure
- Exiting the vehicle

In the exterior area, for example, the following situations are accompanied by selected sounds:

- Locking and unlocking your vehicle
- Plugging in and unplugging the vehicle plug

The sound when disconnecting the vehicle plug varies with the state of charge of your vehicle.

- Unlocking the vehicle plug
- Successful initiation of the charging process
- Malfunction when charging

In addition, your vehicle welcomes you with an ambient sound outside when the vehicle is stationary and unlocked.

- ❶ The availability of the exterior area sounds is dependent on the country.

### ■ Calling up Sound Experience

Multimedia system:

➞  ➞ **Sound Experience**

### Selecting sound themes

- ▶ **Select a sound theme.**

- ❶ You can purchase further sound themes via the Mercedes-Benz Portal.
- ❶ Availability of sound themes for subsequent procurement is both country and equipment-dependent.

- ▶ **Deactivating a sound theme:** select **Off**.  
If the option is switched off, the prescriptions concerning pedestrian protection are



still observed, as it is not possible to deactivate all external sounds.

▶ **To set sound parameters:** tap on the **Settings** tab and set the sound parameters.

❗ Depending on the equipment, up to four parameters can be set

### Switching Sound Experience on or off

▶ Select the configuration.

▶ Switch **Sound Experience inside** or **Sound Experience outside** on or off.

❗ The availability of the Sound Experience outside is country-dependent.

## 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. Always observe the specifications of the country in which the recordings are made.

The camera app allows you to take photos and videos both **Internal** and **External** to the vehicle. It is possible to switch between the two cameras in the overview. It is operated using the touchscreen or Touch Control.

The camera app allows you to start and stop dashcam loop recordings.

Recorded photos and videos can be viewed in the Gallery app.

- ❗ The function is country-dependent.
- ❗ If the vehicle does not recognise the USB flash drive, troubleshooting is possible by connecting the USB flash drive to a computer.
- ❗ To ensure problem-free operation, only use USB storage devices formatted as FAT32 or exFAT.
- ❗ Never remove the USB flash drive during a recording. This can damage the files. Only remove a USB flash drive in the settings (→ page 403).

### 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 manual external view recording is started during a dashcam loop recording, the loop recording will be paused. The timer message for manual recording starts.



- 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 391).
- The vehicle is switched on.

Multimedia system:



- ▶ Select **Apps**.
- ▶ Select **Camera**.

The following recording modes are available:

- Video
- Photos

- ▶ Select the corresponding icon.

or

- ▶ Trigger the camera via the MBUX Voice Assistant.

- ❗ Every time the Camera app is launched, a liability notice appears. If the application should be started, select **OK**.
- ❗ Recorded photos and videos can be viewed in the Gallery app. To do this, select the Gallery app icon in the overview.

### Configuring Camera app settings

Multimedia system:



- ▶ Select **Apps**.
- ▶ Select **Camera**.
- ▶ Select

The following functions are available:

- **Snapshot timer**
- **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.



### Useful information on Digital Extras

Digital Extras are information and telematics services, on-demand features and other digital content, digital products and digital services. These can be purely digital or control certain functionalities of the underlying hardware ("together Digital Extras").

Digital Extras for driver assistance systems that assist the driver when driving, parking and manoeuvring can influence the driving characteristics of the vehicle.

Digital Extras with a limited term can be extended for a fee in the Mercedes-Benz Store after expiry, provided they are still available for the corresponding vehicle at that time

Digital Extras that require a linked vehicle apply exclusively to the respective vehicle. Examples include Digital Extras for charging functions of the high-voltage battery or streaming.

- ① **Linked vehicle:** you have a Mercedes me user account and have linked the user account to your vehicle (→ page 406).

You have the option of activating and deactivating individual Digital Extras.

- ① The available Digital Extras depend on the following factors, for example:

- Market
- National version
- Technical conditions
- **Vehicle equipment**

We reserve the right to make changes to the available Digital Extras and their range of functions. The provisions of the terms of use for Digital Extras that you have concluded with the relevant provider apply.

### Scope of services and access options

The additional scope of services of the individual Digital Extras, the conditions of use, the availability and any further information can be found in the respective description of the Digital Extra in the Digital Owner's Manual or on the Mercedes-Benz Digital Extras website.

Depending on the respective Digital Extra, one or more of the following user accesses may be available:

- MBUX multimedia system in the vehicle
- Mercedes-Benz App
- Online on the website <https://www.mercedes-benz.de/passengercars/services/mercedes-me/digital-extras.html> (Mercedes-Benz Store)

### Conditions of use

The Digital Extras are available in Mercedes-Benz vehicles equipped with an integrated communication module. Some of the Digital Extras require additional special equipment in the vehicle. Details and any other conditions of use can be found in the respective description of the Digital Extras in the Digital Owner's Manual or on the Mercedes-Benz Digital Extras website.

To be able to use the Digital Extras for a vehicle, the **vehicle must be linked to the Mercedes me user account**. Digital Extras in the vehicle can only be activated and used once the vehicle has



been linked. Only one customer can be assigned to each vehicle as the main user (owner).

For security reasons, an identity check is required to use some Digital Extras.

The use of Digital Extras via apps requires a compatible end device and a mobile data connection as well as the purchase and installation of the apps on the compatible end device.

The use of Digital Extras requires the following actions by the customer:

- Permanent acceptance of the current terms of use for Digital Extras and the current valid Mercedes me ID
  - A permanent link between the vehicle and the Mercedes me user account (Mercedes-Benz user account)
  - Activation of the Digital Extras (if required)
- i** The description of a Digital Extra in the Digital Owner's Manual or on the Mercedes-Benz Digital Extras website contains details and any further requirements for use.

### Co-users

To allow other people access to the Digital Extras and the vehicle, you can invite and authorise other people as co-users in your user account. To use the Digital Extras as a co-user, these persons must also have a user account and confirm the activation by you online.

By being invited to co-use the vehicle, the co-user receives certain authorisations to operate and use vehicle information or Digital Extras, e.g. to call up the vehicle status and start the stationary heater.

However, the purchase of Digital Extras, the activation and deactivation of Digital Extras, cancellations and the linking and unlinking of the vehicle remain reserved for you as the main user.

### Data protection and data security

Information on data processing, data protection and data security can be found in the data protection notes for Mercedes-Benz Digital Extras.

Information on personal data processed for the use of Digital Extras can be found in the Digital Extras data protection policy.

## Onboarding

### Creating a Mercedes me ID for registration

You can create the Mercedes me ID in the Mercedes-Benz App or at <https://mercedes.me>.

The creation of the Mercedes me ID for registration is described using the Mercedes-Benz App as an example.

- ▶ **Step 1:** download the Mercedes-Benz App from the App Store.
- ▶ **Step 2:** enter the email address or mobile phone number.
- i** If the data in the Mercedes-Benz App is confirmed with **Continue**, the end user licence agreement (EULA) and the data protection provisions are accepted.
- ▶ Select **Continue**.
- ▶ **Step 3:** enter your personal details and confirm the terms of use.
- i** Mandatory fields are marked with an \*.
- ▶ Accept ☒ the Mercedes me ID terms of use.
- ▶ Select **Create user account** (register).



▶ **On the website:** enter a password.

❗ Observe the specified password requirements when entering the password.

▶ **Step 4:** enter the 6-digit code that was sent to the email address or mobile phone number.

▶ Select **Continue**.

A message appears. You are now registered with your Mercedes me ID.

### Linking your user account with your Mercedes-Benz

There are three options for linking the user account to your vehicle:

- with a QR code

This option is available in a vehicle with MBUX multimedia system.

You can create the link as the main user and co-user.

- with the vehicle identification number (VIN)

You can find this in your vehicle registration document or in the door frame of your vehicle.

- at a Mercedes-Benz service centre

▶ Select one of the options.

### Linking with a QR code

Requirements:

- The vehicle is parked.
- The smartphone and the MBUX multimedia system have an active internet connection.

❗ Depending on the generation of the MBUX multimedia system, you will be notified of the link via QR code the first time you start the vehicle.

▶ **Step 1:** start the MBUX multimedia system in the vehicle.

▶ Select .

▶ Select **Apps**.

▶ Select **Mercedes me**.

▶ Select **Connect now**.

▶ Select **OK**.

The activation process can take a few minutes.

A QR code is shown in the central display.

▶ **Step 2:** scan the QR code shown on the central display using the camera function on your smartphone.

or

▶ Open the Mercedes-Benz App on your smartphone.

▶ In the **Add vehicle** menu select the **QR code** option.

▶ Scan the QR code shown in the central display. If the scan was successful, the **Vehicle recognised** message appears.

▶ **Step 3:** select **Next**.

▶ Accept ☒ the terms of use.

❗ If desired, accept further options:

- Product improvement
- Product improvement (language)
- Product improvement (maps)

▶ **Step 4 (optional):** to prevent unauthorised persons from using critical functions in the



Mercedes-Benz App, you should choose a Mercedes me PIN.


▶ Select **Save**.

▶ **Step 5:** enter the 6-digit code that was sent to your email address or mobile phone number.

▶ Select **Continue**.

This successfully completes the linking of your vehicle with your Mercedes me ID.

#### Adding a co-user via QR code

▶ **Step 1 (main user):** open  in the Mercedes-Benz App and select the vehicle. The **My garage** menu appears.

▶ Select **Manage users**.

▶ **Step 2 (main user):** select **Add user**.

▶ **Step 3 (co-user):** scan the displayed QR code with the smartphone's camera function.

❗ A co-user can request the link from the main user. The latter then issues the authorisation.

#### Linking with the vehicle identification number

Requirements:

- The MBUX multimedia system requires an active internet connection to receive the verification code.

▶ **Step 1:** select **Vehicle identification number** in the Mercedes-Benz App.

▶ **Step 2:** select **Add vehicle**.

▶ **Step 3:** select **Link via vehicle identification number**.

▶ **Step 4:** enter the vehicle identification number.

▶ **Step 5:** select **Start linking**.

A notification with a verification code is sent to the MBUX multimedia system.

▶ **Step 6:** enter the verification code and select **Confirm**.

This successfully completes the linking of your vehicle with your Mercedes me ID.

#### Activating Digital Extras from Mercedes-Benz

As soon as you have taken over the vehicle and successfully linked it to your Mercedes-Benz account, you can select the Digital Extras you wish to activate.

▶ Select the vehicle in the Mercedes-Benz App.

▶ Select **Manage services**.

▶ Select **Activate services**.

▶ Select **Activate all services** or **Activate services individually**.

The activation process can take a few minutes. In order to be able to use all Digital Extras, it is necessary to accept the terms of use for Digital Extras, create a Mercedes-Benz PIN and undergo an identity check.

❗ Digital Extras are categorised, e.g.:

- Navigation
- Remote
- Entertainment



- ▶ **To activate all Digital Extras:** select [Start identity check now](#) or [Continue without identity check](#).

After selecting [Continue without identity check](#) some extras, e.g. locking and unlocking doors, are not available.

- ▶ Confirm ☒ the legal terms and conditions of Mercedes-Benz as well as acknowledgement of the data protection information.

- ▶ Select the document type for identification, e.g. passport.

- ▶ Scan the passport.

- ▶ Scan your face.

If the scans are successful, an overview will appear showing the linking of the vehicle and activation of the Digital Extras.

If further details need to be added to activate the Digital Extras, you will then be guided through the necessary steps.

- ☒ Vehicle linking
- ☒ Requirements for service activation
- ☒ Terms of use
- ☒ Identity check

- ☒ Preferred means of contact
- ☒ Mercedes-Benz PIN
- ☒ Activation of personalised offers

### Logging in to the Mercedes-Benz App

#### Requirements:

- You have registered with your Mercedes me ID.

- ▶ **Step 1:** open the Mercedes-Benz App on your smartphone.

- ▶ **Step 2:** log in to your user account with your Mercedes me ID.

- ▶ Select [Next](#).

- ▶ **Step 3:** enter the 6-digit code that was sent to your email address or mobile phone number.

- ▶ Select [Continue](#).  
You are logged into the Mercedes-Benz App.

- ① To be able to use the full range of functions, your user account must be linked to your vehicle (→ page 406).

### Removing a vehicle from your user account

Unlinking deactivates the Digital Extras for the customer in the vehicle concerned.

- ▶ **Step 1:** open the  page menu and select the vehicle.

The [My garage](#) menu appears.

- ▶ Select [Manage users](#) if a co-user is to be removed. The main user can remove the vehicle directly in the "My garage" menu.

- ① Alternatively, write an email to the Mercedes-Benz Centre and ask to be unlinked.



## ASSYST PLUS service interval display

### Function of the ASSYST PLUS service interval display

The ASSYST PLUS service interval display indicates the next regular service due date on the central display.

Depending on the operating conditions of the vehicle, the remaining time or distance until the next service due date will be displayed.

You can obtain information concerning the servicing of your vehicle from a qualified specialist workshop, e.g. a Mercedes-Benz Service Centre (→ page 33).

Observe further information on the prescribed service and maintenance work for your vehicle (→ page 420)

## Carrying out 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.

**!** **NOTE** Irreparable damage to the high-voltage battery due to maintenance work not being carried out

The high-voltage battery is subject to wear. Maintenance work which is not carried out in time can lead to irreparable damage to the high-voltage battery.

- ▶ Always observe the warning messages about the high-voltage battery and

immediately consult a qualified specialist workshop.

- ▶ Have the necessary maintenance work on the high-voltage battery carried out at a qualified specialist workshop.

The prescribed service interval is based on normal operation of the vehicle.

Have maintenance work carried out more frequently in the following cases:

- Arduous operating conditions
- Increased stress

This is the case for frequent operation in mountainous terrain or on poor road surfaces, for example. In such cases, replace the interior air filter more often, for example, and have the tires checked more frequently. Further information can be obtained at a qualified specialist workshop.

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.



### 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.

### Intelligent Status & Service

#### Intelligent Status & Service

**i** This function is a Digital Extra (→ page 404).

Intelligent Status & Service provides support in all topics relating to the maintenance, care and repair of the vehicle and can inform you whether maintenance is due, wear parts need replacing or malfunctions have occurred.

If the service is activated, relevant data is automatically transferred to the Mercedes-Benz Customer Centre, e.g. if faults are detected. The Customer Centre transmits the data to the service partner that you have entered on the Mercedes-Benz Connect website at: <http://www.mercedes.me>.

You will then receive individual recommendations regarding the maintenance of your vehicle.

Authorised service partners can retrieve relevant data for determining the required scope of maintenance, fault detection and troubleshooting as required, e.g. for preparing a maintenance or repair order or for remote diagnostics purposes.

Depending on the fault detected, a notification may appear on the central display. You can also contact the Mercedes-Benz Customer Centre directly from there.

- i** 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.
- i** Reliable fault and wear detection is subject to technical limitations and depends on the

country, vehicle type and equipment. Therefore, only a limited selection of faults and wear states can be detected and recommendations for action transmitted to the Customer Centre and service partners.

- i** The availability and functional scope of the service as well as the transmission of a notification to the multimedia system depends on the country, vehicle type and equipment, and may be subject to change. The availability of the service requires a fast data connection.

### Transmitted data when using Intelligent Status & Service

Use of the service requires agreement to the terms of use for the Mercedes-Benz Connect services, the designation of a preferred Mercedes-Benz service partner and at least one direct communication channel (telephone or e-mail). 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 transmission can be found in the data protection information for Mercedes-Benz connect services. You can find these at: <https://www.mercedes.me> under "My Account", "Privacy & Legal", "Terms of Use and Consents".

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

### Keeping the air/water duct free

- ▶ Keep the area between the front bonnet and the windscreen free of deposits (e.g. ice, snow or leaves).

### Topping up the windscreen washer system

- ⚠ **DANGER** Risk of fatal injuries when carrying out maintenance work during the charging process

During the charging process, the high-voltage on-board electrical system is under high voltage.

- ▶ Do not perform any maintenance work during the charging process.

### ⚠ **WARNING** Risk of burns when the front bonnet is opened

If you open the front bonnet when the engine is overheated or there is a fire in the engine compartment, the following may occur:

- You may come into contact with hot gases.
  - You may come into contact with other escaping hot operating fluids.
- ▶ Before opening the front 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 components in the engine compartment

Certain components in the engine compartment can be very hot, e.g. the drive system and the cooler.

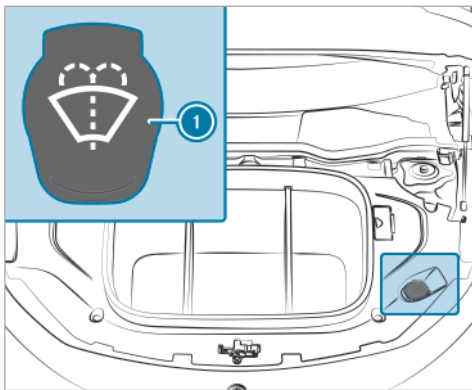
- ▶ Allow the drive system to cool down and touch only the components described below.



**⚠ WARNING** Risk of fire and injury from windscreen washer concentrate

Windscreen washer concentrate is highly flammable.

- ▶ Avoid fire, naked flames, smoking and the creation of sparks when using windscreen washer concentrate.



- ▶ Remove cap ① by the tab.
- ▶ Top up the washer fluid.

## Cleaning and care

### 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:

- Brake Assist
- HOLD function
- Parking Assist

To avoid damage to the vehicle, deactivate these systems (e.g. while towing or 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.



Ensure the following before using a car wash:

- The HOLD function is switched off.
- The 360° camera or the reversing camera is switched off.
- The vehicle is locked and the door handles retracted.
- The outside mirrors are retracted.
- 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 conveyor systems:
  - Neutral **N** is engaged.
  - The vehicle is locked from the inside.
  - If you would like to leave the vehicle while it is being washed, make sure the key is located in the vehicle. Otherwise, park position **P** will automatically be engaged.

- ① Removing the wax from the windscreen and the wiper blades after washing the vehicle will help avoid smearing and reduce wiper noise.

### 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.

Make sure of the following when using a high-pressure cleaner:

- Keep the key at least 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 nozzle of the high-pressure cleaner around while 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

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.
  - ▶ Do not use acidic cleaning agents.
  - ▶ 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.
- ❗ Observe the notes on the care of car parts (→ page 415).

### 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, foil or similar materials. Only have foil attached to the bumper at a qualified specialist workshop.
- Remove dirt immediately, where possible. Do not use acid solutions and acidic cleaners.

#### Matt finish

- Only use care products approved for Mercedes-Benz.
- Do not attach stickers, foils or similar materials. Only have foil 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 are working (→ page 203).

### Cleaning decorative films

Observe the "Notes on paintwork / matt finish paintwork care" (→ page 414). They also apply to matt decorative films.

Observe the notes on cleaning decorative films to avoid damage.

#### Cleaning

- When cleaning with the high-pressure cleaner, maintain a distance of at least 70 cm between the film-covered parts of the vehicle and the nozzle of the high-pressure cleaner.
- 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).

- Do not use acidic cleaning agents.
- 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 will be 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 create glossy spots on 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).

#### Window films

**!** **NOTE** Damage to electronic components due to excess fluids

When window films have been retrofitted, 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.

#### Cleaning and 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 drive system before cleaning the windscreen or wiper blades.

**!** **NOTE** Damage due to use of acidic cleaning agents

- ▶ Do not use acidic cleaning agents. Otherwise, the surfaces could be damaged.

To avoid damage to the vehicle, observe the notes on cleaning and care of the following car parts:

## 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 on the 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.
- ① 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.
- ① Remove external misting or dirt on the windscreen near the camera. Otherwise, driving systems and driving safety systems may be impaired or unavailable (→ page 203).

## 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.

## Wiper blades

- Move the wiper arms into the replacement position (→ page 150).
- With the wiper arms folded out, clean the wiper blades with a damp cloth.
- ① Note 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.

## Vehicle socket (high-voltage battery)

- Use clean water and a soft cloth to clean the vehicle socket.




- Do not use high-pressure cleaners or cleaning agents, such as soap.

### Sensors


- Clean the sensors in the front and rear part of the vehicles with car shampoo, plenty of water and a soft cloth (→ page 203).
- When using a high-pressure cleaner, maintain a minimum distance of 30 cm.

### Cameras


- Open the camera cover with the multimedia system (→ page 254).
  - Use clean water and a soft cloth to clean the camera lenses.
  - Do not use a high-pressure cleaner.
-  Remove external misting or dirt on the wind-screen near the camera. Otherwise, driving systems and driving safety systems may be impaired or unavailable (→ page 203).

### Trailer hitch


- Observe the notes on care in the trailer hitch manufacturer's owner's manual.


- Do not clean the ball neck with a high-pressure cleaner or solvent.
  - Remove traces of rust on the ball (e.g. with a wire brush).
  - Remove dirt with a lint-free cloth.
  - After cleaning, lightly oil or grease the ball head.
-  Before using trailers with anti-swerve coupling, note the manufacturer's owner's manual.

### Interior care

 **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.

 **NOTE** Property damage due to disinfectants

The interior includes a number of sensitive surfaces such as displays, plastics and leather.

Disinfectants can contain alcohol and other substances that penetrate and damage surfaces. Technology behind buttons and displays can also be damaged.

-  Do not use disinfectant on interior surfaces.

To avoid damage to the vehicle, observe the following notes on cleaning and care:



**Seat belts**

- Clean with lukewarm and 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.
- If very dirty: use a cleaning agent recommended for Mercedes-Benz.
- Do not attach stickers, plastic film or similar materials.

- Do not allow cosmetics, insect repellent or sun cream to come in 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.
- If very dirty: 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.

**ARTICO imitation leather steering wheel**

- Clean the entire steering wheel with a damp cotton cloth and a 1% soap solution. Do not spot clean.
- Use cleaning and care products recommended for Mercedes-Benz.

- Afterwards, wipe down with a damp microfibre cloth.
- Do not use oil-based cleaning and care products.

**Steering wheel made from genuine leather or MIRCOCUT microfibre****! 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 a 1% soap solution and then wipe with a dry cloth.
- If very dirty: use a cleaning agent recommended for Mercedes-Benz.

**Leather care**

- Use a leather care agent recommended for Mercedes-Benz.
- Do not allow the leather to become too damp.



- Do not use a microfibre cloth.

**i** Leather is a natural product. It has natural surface characteristics, such as differences in structure, marks caused by growth and injury or subtle colour differences. These surface characteristics are particular to leather, and are not material defects. Leather is also subject to a natural ageing process, which changes the surface characteristics.

#### **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.
- If very dirty: use a leather care agent recommended for Mercedes-Benz aftercare.

#### **Leather care**

- Use a leather care agent 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 has natural surface characteristics, such as differences in structure, marks caused by growth and injury or subtle colour differences. These surface characteristics are particular to leather, and are not material defects. Leather is also subject to a natural ageing process, which changes the surface characteristics. 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 will reduce dirt build-up, wear marks and ageing damage and thus significantly extend its life span. Clothing that can leave stains (e.g. jeans) may discolour the leather.

#### **MICROCUT microfibre seat covers**

- Vacuum up dirt such as crumbs or dust and then use a damp microfibre cloth to clean.

#### **ARTICO 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.

#### **Cloth 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.



## Service information

**⚠ WARNING** Risk of accident due to malfunctions or system failures

If you do not have the prescribed service/maintenance work or any required repairs carried out, this could result in malfunctions or system failures.

▶ Always have the prescribed service- and maintenance work or any required repairs carried out in a qualified workshop.

Observe the ASSYST PLUS service interval display at all times (→ page 409). Have the prescribed service performed within the remaining time period or the remaining distance travelled.

The qualified specialist workshop carries out the due service at fixed intervals. These inspections take place either after a specified distance before service due date or after a certain period of time, depending on which threshold is reached first.

Additional work is taken into account depending on respective time elapsed and distance travelled.

Additional work includes maintenance work carried out due to technical requirements, in cases of wear or work carried out on any special equipment. This work is carried out and invoiced separately.

**i** You can always obtain up-to-date information pertaining to servicing of your vehicle from a qualified specialist workshop, e.g. a Mercedes-Benz Service Centre. This could include, for example, an overview of maintenance work or potential additional work.

Always have the prescribed service and maintenance work performed and documented punctually and in accordance with Mercedes-Benz AG guidelines.

Mercedes-Benz are continuously developing their vehicles, and therefore reserve the right to revise the scope of the service and maintenance work accordingly.

### Mercedes-Benz Service

The basic service focuses on fundamental, technically essential service and maintenance work. It is therefore particularly cost-effective for you. The

specified maintenance procedures ensure maximum transparency from the start.

You may select the optional PLUS package as a supplement to the basic service. This encompasses all simple maintenance work that you could carry out yourself.

### Special service requirements

Special service requirements may be necessary, for example, for certain components after a running-in period.

Service and maintenance work will need to be performed more often, or additionally, if the vehicle is operated under arduous operating conditions or with increased loads.

**i** You can obtain up-to-date information pertaining to particular service requirements and service intervals for your vehicle at any time from a qualified specialist workshop. Mercedes-Benz recommends that you visit a Mercedes-Benz Service Centre in this regard.

## Digital service report

Digital Service Booklet (DSB)



- ❗ The Digital Service Booklet (DSB) is not available in certain countries: verification of all service and maintenance work is logged in the service booklet.

Verification of all service and maintenance work is logged in our central database. You can obtain a printout of the service report.

The service data can therefore be documented throughout the service life of the vehicle, and will always be available for reference. Every authorised service partner can provide you with information pertaining to current service data for your vehicle. This means that you can be assisted as quickly as possible, regardless of your location.

### Notes on repairs following an accident

This information applies to vehicles with aluminium body components.

Mercedes-Benz vehicles are built to extremely high safety standards. Any repairs carried out subsequent to an accident should be performed to a high professional standard if continued reliability of your vehicle's safety features is to be guaranteed.

The vehicle body may be made up of aluminium components, either partly or almost exclusively, which are produced using various manufacturing processes.

Mercedes-Benz AG has developed appropriate repair methods for each type of damage.

Information on whether your vehicle body components are composed of aluminium can be obtained at a qualified specialist workshop. Mercedes-Benz recommends that you use a Mercedes-Benz Service Centre for this purpose.

If structurally-relevant parts of the body are treated using a welding process, the qualified specialist workshop must ensure the following points in particular:

- work is performed in accordance with Mercedes-Benz AG guidelines
- verification of work completed in accordance with specific Mercedes-Benz welding requirements

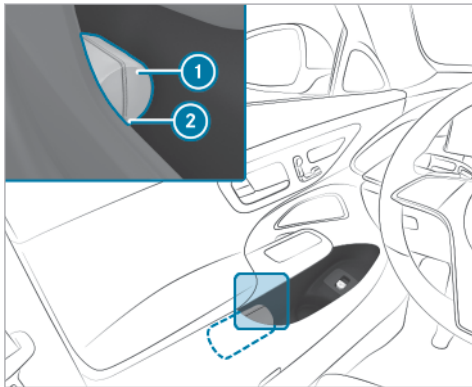
Warranty claims could be refused if these points are not observed. Furthermore, safety of the vehicle could be severely impaired.

Mercedes-Benz recommends that you use a Mercedes-Benz Service Centre for this purpose.



## Emergency

## Removing the safety vest

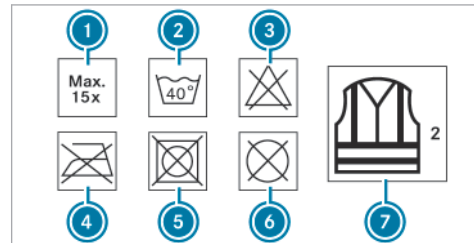


There is a safety vest stowage recess in the door stowage compartments of all doors for storing the safety vests.

- ▶ To remove: pull out the safety vest bag ① using the loop ②.

- ▶ Open the safety vest bag ① and remove the safety vest.
- ▶ To replace: fold the safety vest, roll it up and insert it into the safety vest bag ①.
- ▶ Slide the safety vest bag ① along the underside of the armrest into the safety vest stowage recess. Ensure that the loop ② remains hanging out so that it is easy to grasp.

- ① Remove the packaging film from a new safety vest before sliding it into the safety vest stowage recess, otherwise, it may slide out unintentionally or the packaging may hinder its removal.
- Observe the legal requirements for the individual countries.



- 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.



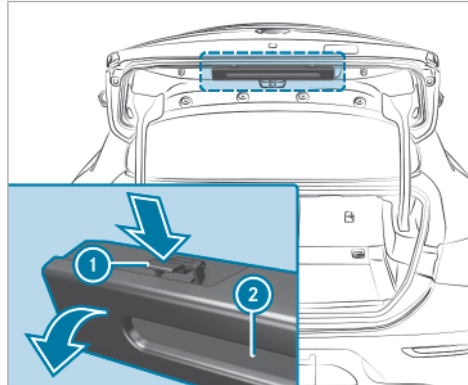
- The maximum permissible number of washes is exceeded.
- The fluorescence property decreases, e.g. due to permanent exposure to sunlight.

Dispose of the safety vest in an environmentally-friendly way:

- Please contact your local waste disposal company.

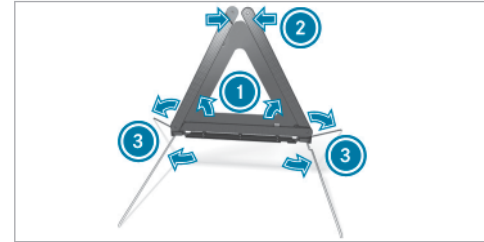
## Warning triangle

### Removing the warning triangle



- ▶ Push both sides of the warning triangle holder ① in the direction of the arrow and open it.
- ▶ Remove the warning triangle ②.

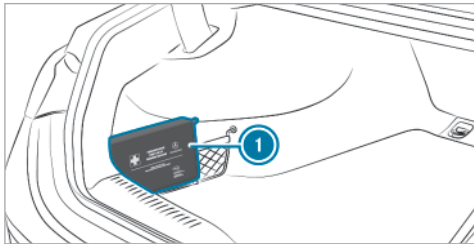
### Setting up the warning triangle



- ▶ Fold the side reflectors ① upwards to form a triangle and attach using the upper snap fastener ②.
- ▶ Fold the legs ③ down and out to the side.



### First-aid kit (soft sided)



The first-aid kit (soft sided) ❶ is located in the boot on the left in the stowage net.

### Removing the fire extinguisher

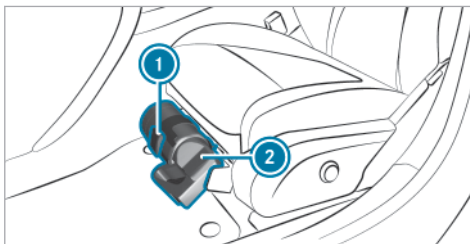
**⚠ WARNING** Risk of accident due to an incorrectly secured fire extinguisher in the driver's footwell

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.



- ▶ Pull the tab ❶ upwards.
- ▶ Fold the tab ❶ down.
- ▶ Remove the fire extinguisher ❷.

### Flat tyre

#### Flat tyre

**⚠ WARNING** Risk of accident due to a flat tyre

A flat tyre severely affects the driving characteristics as well as steering and braking.

**tyres that do not feature run-flat characteristics:**

- ▶ Do not drive on with a flat tyre.
- ▶ Change the flat tyre immediately with an emergency spare wheel or spare wheel. Alternatively, consult a qualified specialist workshop.

#### Run-flat tyres:

- ▶ Observe the information and warning notes on MOExtended tyres (run-flat tyres).



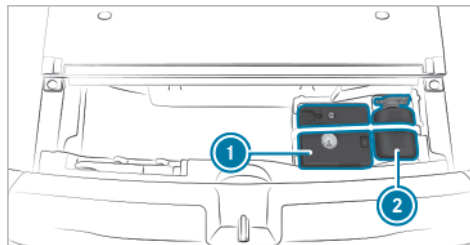
In the event of a flat tyre, the following options are available depending on your vehicle's equipment:

- **Vehicles with TIREFIT kit:** the TIREFIT kit helps to seal the tyre and continue the journey under certain restrictions (→ page 425).
- **Vehicles with Mercedes me connect:** you can make a breakdown call from the overhead control panel in the event of a breakdown .
- **All vehicles:** change the wheel (→ page 445).

**i** The emergency spare wheel is only available in certain countries (→ page 450).

### TIREFIT kit storage location

The TIREFIT kit is located under the boot floor.



**1** Tyre inflation compressor

**2** Tyre sealant bottle

**i** You can find information on the power category (LK) and/or electrical data on the back of the tyre inflation compressor:

- LK2 – 12 V/15 A, 180 W, 0.8 kg

At a distance of approximately 1 m to the tyre inflation compressor and approximately 1.6 m above the ground, the following sound pressure levels apply:

- Emissions sound pressure level  
L<sub>PA</sub> 83 dB (A)

- Sound power level L<sub>WA</sub> 91 dB (A)

The tyre inflation compressor is maintenance-free. In the event of a malfunction, please contact a qualified specialist workshop.

### Using the TIREFIT kit

#### **Requirements:**

- Tyre sealant bottle and tyre inflation compressor are ready for use (→ page 425).
- TIREFIT sticker is displayed.
- Gloves are at hand.

You can use TIREFIT tyre sealant to seal perforation damage of up to 4 mm, particularly those in the tyre contact surface, 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.

Observe the manufacturer's safety notes on the sticker on the tyre sealant bottle.

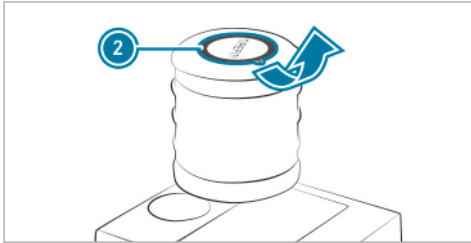
Have the tyre sealant bottle replaced at a qualified specialist workshop every five years.

- ▶ Do not remove any foreign objects which have pierced the tyre.

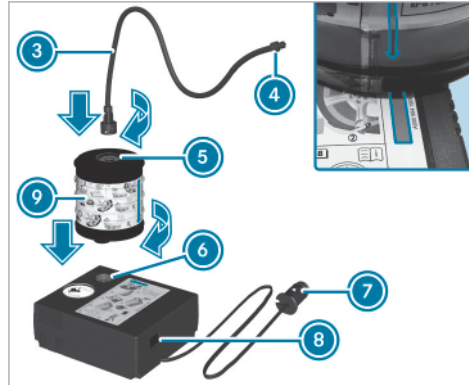


- ▶ Remove the sticker ① from the tyre inflation compressor housing and affix it to the instrument cluster within the driver's field of vision.



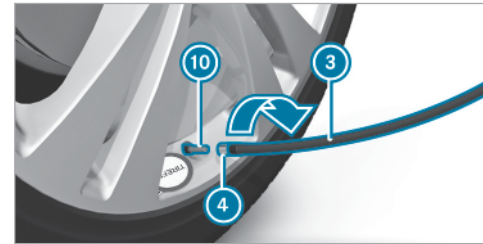


- ▶ Remove the sticker ② from the tyre sealant bottle and affix it near the valve on the wheel with the defective tyre.



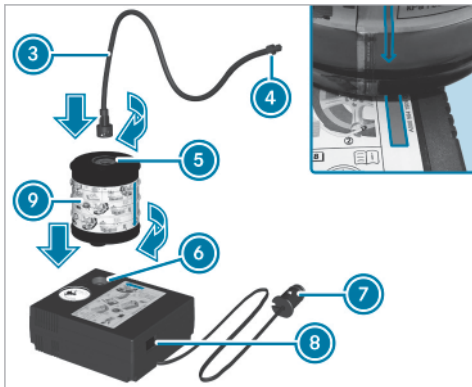
- ▶ Pull the plug ⑦ with cable and filling hose ③ out of the tyre inflation compressor housing.
- ▶ Insert the tyre sealant bottle ⑨ into the connection ⑥ of the tyre inflation compressor. Ensure that the red arrow on the tyre sealant bottle ⑨ lines up with the red arrow on the tyre inflation compressor.

- ▶ Rotate the tyre sealant bottle ⑨ clockwise for a quarter of a turn.
- ▶ Insert the plug of the filling hose ③ into the socket ⑤ of the tyre sealant bottle ⑨.
- ▶ Rotate the filling hose ③ clockwise for a quarter of a turn.



- ▶ Remove the valve cap from the valve ⑩ on the faulty tyre.
- ▶ Screw the union nut ④ of the filling hose ③ onto the valve ⑩.





- ▶ Insert the plug ⑦ into a 12-V-socket in your vehicle (→ page 136).
- ▶ Switch on the vehicle.
- ▶ Press the on and off switch ⑧ on the tyre inflation compressor. The tyre inflation compressor is switched on. The tyre is inflated. First, tyre sealant is pumped

ped 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!

- ▶ Allow the tyre inflation compressor to 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 the vehicle 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.

**! 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.

**If, after ten minutes, a tyre pressure of 200 kPa (2.0 bar, 29 psi) has 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.

**⚠ 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.
- ▶ The sticker with details of the maximum permissible speed must be affixed to the instrument cluster where it can 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.

- ▶ Stow the tyre sealant bottle, the tyre inflation compressor and the warning triangle.
- ▶ 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 with Mercedes-Benz Service24h:** A sticker with the telephone number is affixed to the B-pillar on the driver's side, for example.



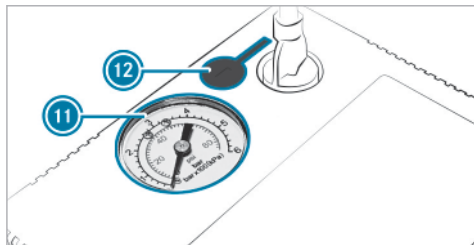
- ▶ Correct the tyre pressure if it is still at least 130 kPa (1.3 bar, 19 psi). For values, refer to the tyre pressure table on the fuel filler flap.

### Increasing the tyre pressure

- ▶ Switch on the tyre inflation compressor.

### Decreasing the tyre pressure

- ▶ Remove the tyre sealant bottle from the tyre inflation compressor.
- ▶ Insert the filling hose into the socket of the tyre inflation compressor and rotate it clockwise a quarter of a turn.



- ▶ Press the pressure release button ⑫ next to the manometer ⑪.

### 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.
- ▶ Stow the tyre sealant bottle and the tyre inflation compressor.
- ▶ Drive to the nearest qualified specialist workshop and have the tyre, tyre sealant bottle and filling hose replaced.

## Battery (vehicle)

### 12-V- battery

In the event of a discharged 12 V battery, consult a qualified specialist workshop, e.g. a Mercedes-Benz service centre.

## High-voltage battery

**⚠ DANGER** Risk of fire and explosion from excessive internal pressure of the high-voltage battery

In the event of a vehicle fire, flammable gas can escape and ignite.

- ▶ Stop the charging process immediately in case of unusual odours, smoke or burn marks.
- ▶ Leave the danger zone immediately. Secure the danger zone at a sufficient distance.
- ▶ Call the fire service.

Observe the notes on charging the high-voltage battery (→ page 179).



Risk of explosion.



Fire, open flame 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.



Wear safety glasses.



Keep children away.



Observe this Owner's Manual.

### Charge the 12 V battery

- ▶ In the event of a discharged 12 V battery, consult a qualified specialist workshop, e.g. a Mercedes-Benz service centre.

### Replacing the 12 V battery

- ▶ Only have the battery replaced at a qualified specialist workshop, e.g. at a Mercedes-Benz Service Centre.

### Tow-starting or towing away

#### Permitted towing methods

#### **!** NOTE Damage from automatic braking

The vehicle will brake autonomously in certain situations if the following functions are switched on:

- Active Brake Assist
- HOLD function
- Active Parking Assist

To avoid damage to the vehicle, switch these systems off e.g. before towing it or in a car wash.

Mercedes-Benz recommends transporting rather than towing your vehicle in the case of a breakdown.

Use a tow rope or towing pole for towing with both axles on the ground. Do not use tow bar systems.

If you notice that the vehicle has lost coolant, do not tow it, but have it transported instead.

#### **!** NOTE Damage to the vehicle due to towing away incorrectly

- ▶ Observe the instructions and notes on towing away.

- i** Tell the towing service you contact what type of drive system layout the vehicle to be towed has, e.g.: 4MATIC.



**Vehicles with rear-wheel drive****Permitted towing methods**

Both axles on the ground	No
Front axle raised	No
Rear axle raised	Yes, only with external lighting.

**4MATIC vehicles****Permitted towing methods**

Both axles on the ground	No
Front axle raised	No
Rear axle raised	No

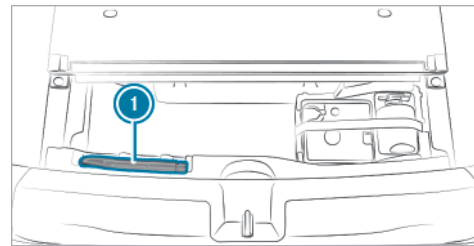
**Towing the vehicle with both axles on the ground**

Do not tow the vehicle with both axles on the ground.

- ▶ Observe the notes on the permitted towing methods (→ page 431).

**Loading up the vehicle for transport**

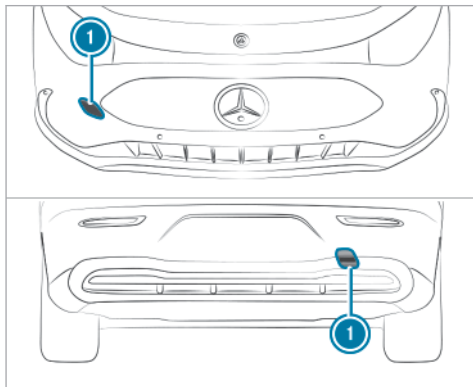
- ▶ Observe the notes on towing (→ page 432).
- ▶ Connect the towing device to the towing eye in order to load up the vehicle.
- ❗ You can also attach the towing device to the trailer hitch.
- ▶ Load the vehicle correctly onto the transporter.
  - Ensure that all wheels are on the transportation surface.
  - Ensure that the vehicle is positioned parallel with the direction of travel.
- ▶ Put the selector lever into position **P**.
- ▶ Use the electric parking brake to secure the vehicle against rolling away.
- ▶ Stop the vehicle and switch off the power supply.
- ▶ Only secure the vehicle by the wheels.

**Towing eye stowage location**

The towing eye ❶ is located under the boot floor on the left-hand side in the loading sill.



## Fitting/removing the towing eye



- ▶ Press the cover ① inwards at the marking and remove.
- ▶ Screw in the towing eye in a clockwise direction as far as it will go.

**Vehicles with trailer hitch:** vehicles with trailer hitch do not feature a holding fixture at the back

for the towing eye. Attach the tow bar to the trailer hitch.

- ▶ After removing the towing eye, reattach the cover ① in the bumper.

**! NOTE** Damage to the vehicle as a result of incorrect use of the towing eye or trailer hitch

The vehicle could sustain damage if the towing eye or trailer hitch is used to pull on the vehicle during recovery situations.

- ▶ The towing eye and trailer hitch should only be used to tow the vehicle.
- ▶ Do not use the towing eye or trailer hitch to pull on the vehicle during recovery situations.

## Tow-starting the vehicle

- ▶ If the drive system does not start, have the vehicle transported to a qualified specialist workshop, e.g. a Mercedes-Benz Service Centre.

- ▶ The drive system is not started by tow-starting the vehicle. Do not make any attempts to tow-start the vehicle.

## Electrical fuses

### 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.

Replace blown fuses with equivalent fuses, identifiable by their colour and 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 engine compartment (→ page 434).

**! 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.

In the event that a newly inserted fuse blows again, have the cause determined 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 left-hand side of the vehicle, when viewed in the direction of travel (→ page 434)
- Fuse box in front of the centre console, behind the carpet in the driver's and passenger footwells
- Fuse boxes on the right-hand side of the boot, when viewed in the direction of travel (→ page 435)

### Opening/closing the fuse box in the engine compartment

**Requirements:**

- Observe the notes on electrical fuses (→ page 433).

The fuse box is located under the front load compartment.

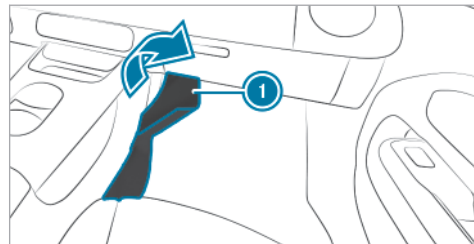
- ▶ To open and close it, consult a Mercedes-Benz Service Centre.

### Opening/closing the fuse box in the driver's/front passenger footwell

**Requirements:**

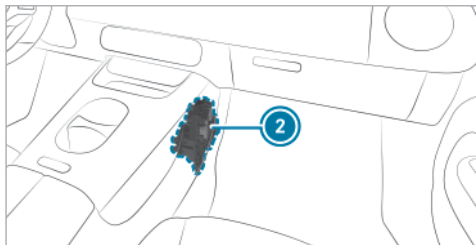
Observe the notes on electrical fuses (→ page 433).

- ▶ The fuses are located in front of the centre console behind the carpet ① in the driver's and front passenger footwells.

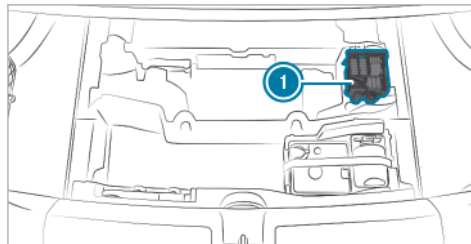




- **To open:** detach carpet ❶ from the holder and fold down in the direction of the arrow.



- The fuses are located in fuse box ❷.
- **To close:** fold back carpet ❶ and ensure that it is held securely in place by the holder.



- **To open:** fold up the boot floor.
- Fuse box ❶ is located on the right-hand side under the boot floor.
- **To close:** fold back the boot floor.

### Opening/closing the fuse box in the boot

#### Requirements:

Observe the notes on electrical fuses  
(→ page 433).

- Open the boot lid.



### Noise development/unusual handling characteristics

Be 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 and have the tyres and wheels checked at a qualified specialist workshop.

### Regular checking of 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. There is a risk of an accident.

On a wet road surface the risk of aquaplaning is increased, in particular where speed is not adapted to suit the conditions.

- ▶ Check the tread depth and the condition of the tyre contact surface across the entire width of all tyres on a regular basis.

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.
- ▶ Replace the tyres immediately if 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, e.g. before a long journey or driving off-road:

- Check the tyre pressure (→ page 438)
- 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.

### 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 body or suspension parts caused by fitted snow chains

Fitting snow chains to the front wheels of 4MATIC models can damage body or suspension parts.

► Only fit snow chains to the rear wheels of 4MATIC models.

**!** **NOTE** Damage to wheel trims caused by fitted snow chains

Fitting snow chains to aluminium wheels can damage the wheel trims.

► Remove the wheel trims from the aluminium wheels before fitting snow chains.

Observe the following instructions when using snow chains:

- Snow chains are only permissible for certain wheel/tyre combinations. Information on this can be obtained 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 of 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.

**i** Permanently limit the speed for winter tyre mode (→ page 215).

**i** Deactivate ESP® when pulling away (→ page 207). This allows the wheels to spin, achieving increased tractive power.

### Activating/deactivating snow chain mode

Multimedia system:



► Activating or deactivating **Snow chain mode**.

When the function is active, the vehicle adjusts to snow chains having been fitted.

Some functions of the driving systems and driving safety systems are not available when snow chain mode is active.

### Selecting the tyre type

#### Requirements:

- The Digital Extra "Navigation with Electric Intelligence" is available and activated in the Mercedes me Portal.

**i** Further requirements for Navigation with Electric Intelligence (→ page 331).

Multimedia system:

→ ► **All settings** ► **Vehicle**

The setting in this menu optimises the energy prognosis of Navigation with Electric Intelligence at the start of your journey. Charging stations are thus better selected, for example.

► Select **Tyres**.

► Select **Tyre type**.



**i** After a wheel has been changed and you have travelled for several kilometres the menu for selecting the fitted tyre type appears automatically.

**▶** Select the tyre type, for example **Winter tyres**.

**i** If you do not select a tyre type, the prognosis will be based on your vehicle's configuration and the time of year. In order to obtain an optimal prognosis, Mercedes-Benz recommends selecting the tyre type. If you have any questions, please consult a Mercedes-Benz service centre or your tyre retailer.

**i** Available tyre types are equipment and country-dependent. In some countries, the **Studded tyres** option can additionally be selected.

**Tyre pressure**

**Tyre pressure**

**⚠ WARNING**  
Risk of accident

- ▶** Observe the recommended tyre pressures and check the tyre pressure of all tyres including the spare wheel:
  - monthly
  - when the load changes
  - before embarking on a longer journey
  - when the operating conditions change, e.g. off-road driving
- ▶** Adjust the tyre pressure, if necessary.

In case of repeated pressure drop:

- ▶** Inspect the tyre for foreign bodies.
- ▶** Check whether the tyre or valve is leaking.
- ▶** If the problem cannot be rectified, 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 B-pillar on the driver's side.

**Information on trailer operation:** always inflate the rear tyres to the tyre pressure recommended for an increased load in the tyre pressure table.

**Tyre pressure table**

The tyre pressure table is on the B-pillar on the driver's side.

100 kPa = 1 bar


		kPa	psi	kPa	psi
P1 (front left)	Standard	250	36	250	36
	Increased load	280	40	280	40
P2 (front right)	Standard	250	36	250	36
	Increased load	280	40	280	40
P3 (rear left)	Standard	250	36	250	36
	Increased load	280	40	280	40
P4 (rear right)	Standard	250	36	250	36
	Increased load	280	40	280	40

A 213 584 37 03      1234567



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. load and/or speed of the vehicle.

If one or more tyre sizes precede a tyre pressure, the tyre pressure information following is only valid for those tyre sizes.

For preceding tyre sizes that are complemented by the  symbol, the tyre pressure information following shows alternative tyre pressures. These tyre pressures may improve your vehicle's ride comfort. Energy 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.

Also take note of the following topics:


- Notes on tyre pressure (→ page 438)

## Tyre pressure monitoring system

### ■ Function of the tyre pressure monitoring system

The system checks the tyre pressure and the temperature of the tyres fitted to the vehicle by means of a tyre pressure sensor.

The tyre pressure and tyre temperature are displayed in the multimedia system.

If there is a significant loss of pressure or the tyre temperature is too high, you will be warned by display messages (→ page 676) or the warning lamp  in the driver display (→ page 693).

The tyre pressure monitoring system serves solely as an aid. It is the driver's responsibility to set the tyre pressure to the recommended cold tyre pressure suitable for the operating situation.

After a change in tyre pressure, restart the tyre pressure monitoring system in order to update the tyre pressure reference values (→ page 440).

## System limits

The system may be impaired or inoperative in the following situations in particular:

- Incorrectly taught-in tyre pressure reference values
- Sudden loss of pressure, e.g. due to a foreign body penetrating the tyre
- Interference from another radio signal source

## ■ Checking the tyre pressures

### Requirements:

- The vehicle is switched on.

Multimedia system:



- ▶ Select **Text is Missing**.
- ▶ Select **Status**.

One of the following messages 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 status (→ page 438). Additionally, observe the notes on cold tyres (→ page 438).

- ❗ The values displayed may deviate from those of the tyre pressure gauge as they relate to sea level. At high elevations, the tyre pressure values indicated by a pressure gauge are higher than those shown on the display.

## Restarting the tyre pressure monitoring system

### Requirements:

- The recommended tyre pressure is correctly set for the respective operating status in each of the four wheels (→ page 438).

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.

Multimedia system:



- ▶ Select **Text is Missing**.
- ▶ Select **Status**.

- ▶ Select **Tyre pressure**.
- The **Use current tyre pressures as new reference values?** message is shown in the display.
- ▶ Select **Yes**.
- The **Tyre pressure monitor restarted** message is shown in the display.

Current warning messages are deleted and the yellow  warning lamp goes out.

After you have driven for a few minutes, the system checks whether the current tyre pressures are within the specified range. The current tyre pressure values are then adopted and monitored as the new tyre pressure reference values.

If the tyre pressure values are not within the prescribed range, the message **Please correct tyre pressure** appears.



## Wheel change

### 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 specifically configured for active safety systems, e.g. ABS, ESP® and 4MATIC, and are marked as follows:

- MO = Mercedes-Benz Original

- MOE = Mercedes-Benz Original Extended (tyres with run-flat characteristics, only for certain wheels)
- MO1 = Mercedes-Benz Original (only certain AMG tyres)

Otherwise certain properties, e.g. driving characteristics, 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 components in the wheel.

Positioning tyre-fitting tools in the area of the valve may damage the electronic components.

- ▶ 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 driving safety.

Before purchasing and using non-approved accessories, visit a qualified specialist workshop and ask about:

- Suitability
- Legal provisions
- Factory recommendations


**!** **WARNING** Risk of accident with sport tyres

The special tyre tread in combination with the optimised tyre compound means that the risk of skidding or aquaplaning 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<sup>®</sup> and adapt your driving style accordingly.



- ▶ Use  M+S tyres at outside temperatures of less than 7 °C.
- ▶ Only use tyres suitable for the intended use.


Observe the following when selecting, fitting and replacing tyres:

- Country-specific requirements for tyre approval that define a specific tyre type for your vehicle.
- The use of certain tyre types in certain regions and areas of operation can be advisable.
- 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).

Only fit a different size of wheel in the event of a flat tyre, to enable you to drive to a 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 maximum permissible speed is below that of the vehicle, this must be indicated by an appropriate label in the driver's field of vision.


- Drive the vehicle with 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 supplied with a TIREFIT kit ex factory. Equip the vehicle with a TIREFIT kit after replacing with tyres that do not feature run-flat characteristics, e.g. winter tyres.

 The speed for driving with winter tyres can be permanently limited (→ page 215).

For more information on wheels and tyres, contact a qualified specialist workshop.

### Rotating 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.

Rotating front and rear wheels of different sizes may render the vehicle's operating permit invalid. Observe the instructions and safety notes on "Changing a wheel" (→ page 441).

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 wear the tyres excessively. This significantly reduces traction on wet roads (aquaplaning).

On vehicles with front and rear wheels of the same size, rotate the wheels every 5000 to 10,000 km, depending on the wear, and maintain the wheels' direction of travel.

After a wheel-change and a few kilometres of travel, the menu for selection of the fitted tyre model appears automatically (→ page 437).

The menu can be called up by a qualified specialist workshop or by yourself.

### 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.

### Tyre-change tool kit

With the exception of some country-specific variants, vehicles are not equipped with a tyre-change tool kit. Consult a qualified specialist workshop to find out which tyre-change tool kit is necessary and approved for a wheel change on your vehicle.

You require the following tools, forexample, to change a wheel:

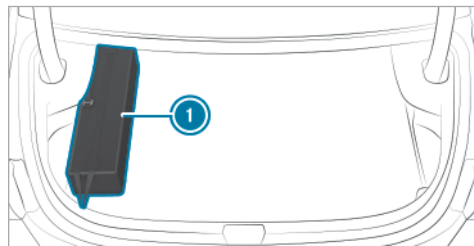
- Jack
- Chock

- Wheel wrench
- Centring pin

- ⓘ 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, contact a qualified specialist workshop.

The tyre-change tool kit is located in the tool bag ① in the boot.

- ⓘ When stowing the tool bag, ensure that it is adequately secured.





The tool bag contains:

- Jack
- Gloves
- Wheel wrench
- Centring pin
- Folding chock
- Ratchet wrench 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**.
- ▶ Switch off the vehicle.
- ▶ Make sure that the vehicle cannot be made drivable.
- ▶ Place wedges or other suitable items under the front and rear of the wheel that is diagonally opposite the wheel you wish to change.
- ▶ Unload the vehicle.
- ▶ If necessary, remove wheel trims/hub caps (→ page 445).

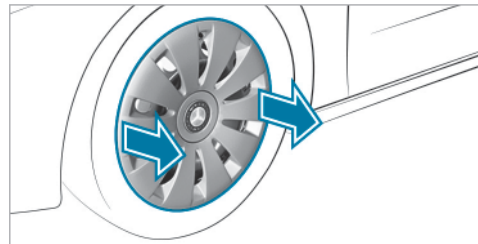
### Removing and fitting wheel trim/hub caps

#### Requirements:

- The vehicle is prepared for a wheel change (→ page 445).

#### Wheel trim

On vehicles with aluminium wheels, the wheel trim covers the wheel bolts. Remove the wheel trim before unscrewing the wheel bolts.



- ▶ **Removal:** use both hands to carefully grip the two wheel trim apertures and pull the trim away.
- ▶ **Fitting:** position the wheel trim and press it firmly until it engages.

#### Plastic hub cap (AMG Line specification)

##### Removal:

- ▶ Turn the centre cover of the hub cap anti-clockwise and remove the hub cap.

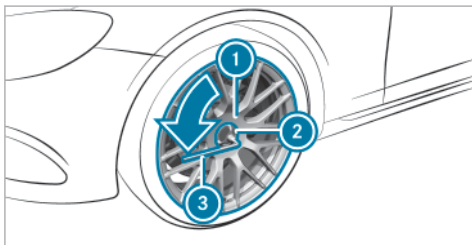
##### Fitting:

- ▶ Make sure that the centre cover of the hub cap has been turned anti-clockwise.



- ▶ Align the centring ramp ② on the reverse of the centre cover ③ with a bolt hole ①.
- ▶ Position the hub cap and turn the centre cover clockwise until the hub cap is felt and heard to engage.

### Aluminium hub cap (AMG Line specification)



### Removal:

- ▶ Position socket ② from the tyre-change tool kit on the hub cap ①.
- ▶ Position the wheel spanner ③ on the socket ②.

- ▶ Using the wheel spanner ③, turn the hub cap ① anti-clockwise and remove it.

### Fitting:

- ▶ Follow the instructions above in reverse order.

❗ Specified tightening torque: 25 Nm.

### Raising the vehicle for a wheel change

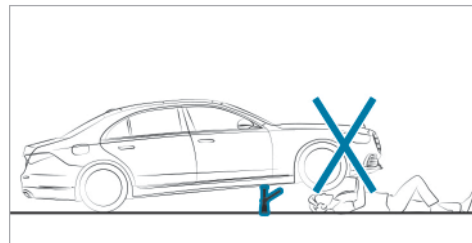
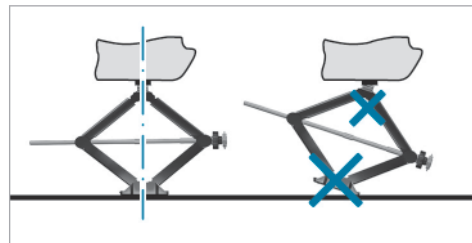
#### Requirements:

- There are no persons in the vehicle.
- The vehicle has been prepared for a wheel change (→ page 445).
- The wheel trims or hub caps have been removed (→ page 445).

#### Important notes on using the jack:

- Use only a vehicle-specific jack that has been approved for 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.

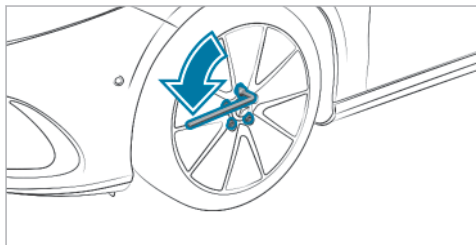
- The jack must be placed on a firm, level and non-slip surface. If necessary, use a large, flat, load-bearing, non-slip underlay.
- The foot of the jack must be positioned vertically under the jack support point.



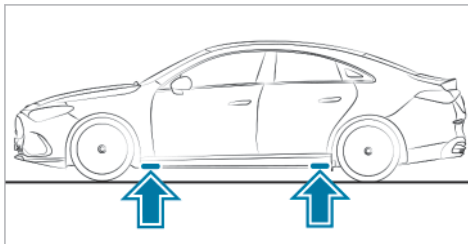


Rules of conduct when the vehicle is raised:

- Do not put your hands or feet under the vehicle.
- Do not 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 spanner, loosen the wheel bolts on the wheel you wish to change by about one full turn. Do not unscrew the bolts 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 the jack has not been positioned at the prescribed jack support points, the vehicle may suffer damage.

- ▶ Only position the jack at the jack support points provided for this purpose.

**! NOTE** Damage to the vehicle due to using an unsuitable jack

If a jack is used which was not designed for the vehicle's jack support points, the vehicle and especially the high-voltage battery may suffer damage.

- ▶ Only use jacks that are specifically designed for the jack support points, or use a suitable adapter.

**! NOTE** Risk of damage to the vehicle due to incorrect positioning of the jack

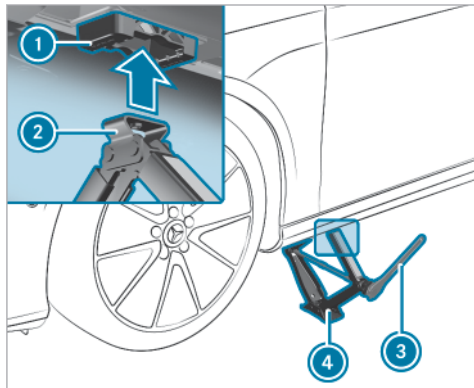
If the vehicle jack has not been positioned at the prescribed jack support points, the vehicle



and especially the high-voltage battery may suffer damage.

► Only position the jack at the designated jack support points.

- Take the ratchet wrench out of the tyre-change tool kit and place it on the hexagon nut of the jack in such a way that the lettering "AUF" is visible.



- Position support plate ② of jack ④ in line with jack support point ①.
- Turn the ratchet wrench ③ clockwise until the support plate ② sits fully against the 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 448).

### Removing a wheel

#### Requirements:

- The vehicle is raised (→ page 446).

During the wheel change, avoid applying any force to the brake discs, as this could lead to impaired comfort during braking.

**!** **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.
- Fit the new wheel (→ page 448).

### Fitting a new wheel

#### Requirements:

- The wheel to be changed is removed and the centring pin is screwed in (→ page 448).

**!** **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 441).

For tyres with a specified running direction, an arrow on the side wall of the tyre indicates the correct running direction. Observe the running direction when fitting.

- ▶ 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.

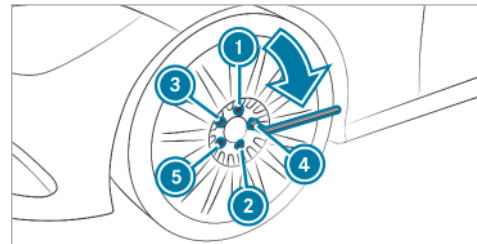
- ▶ Only tighten wheel bolts or wheel nuts when the vehicle is on the ground.

- ▶ Observe the instructions and safety notes on "Changing a wheel" (→ page 441).
- ▶ For safety reasons, only use wheel bolts which have been approved for Mercedes-Benz and for the wheel in question.
- ▶ Tighten the wheel bolts evenly in a diagonal pattern in the order indicated until they are hand-tight.
- ▶ Unscrew and remove the centring pin.
- ▶ Tighten the last wheel bolt until it is hand-tight.
- ▶ Lower the vehicle and tighten wheel bolts with the prescribed tightening torque (→ page 449).

### Lowering the vehicle after a wheel change

#### Requirements

- The new wheel has been fitted (→ page 448).
- ▶ **To lower the vehicle:** place the ratchet wrench onto the hexagon nut of the jack in such a way that the lettering "AB" is visible and turn it anti-clockwise.



- ▶ Tighten the wheel bolts evenly in a diagonal pattern in the indicated order ① to ⑤ with an initial maximum force of 80 Nm.
- ▶ Tighten the wheel bolts evenly in a diagonal pattern in the indicated order 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.
- ① The following does not apply if the new wheel is an emergency spare wheel:
- ▶ **Vehicles with a tyre pressure monitoring system:** restart the tyre pressure monitoring system (→ page 440).

## 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.

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 included wheel bolts for the emergency spare wheel.
  - **Specified tightening torque:** 130 Nm.
  - Check the tyre pressure of the fitted emergency spare wheel and adjust it as necessary.
- ① The specified tyre pressure is stated on the label of the emergency spare wheel.



- i 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 when the emergency spare wheel has been replaced with a new wheel.

Also take note of the following topics:

- Notes on tyre pressure (→ page 438)
- Tyre pressure table (→ page 438)
- Notes on fitting tyres (→ page 441)
- Fitting an emergency spare wheel (→ page 445)



### 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 upon delivery of the vehicle.

### On-board electronics

#### Notes on tampering with the vehicle electronics



**NOTE** Premature wear due to improper maintenance

Improper maintenance can cause vehicle parts to wear out more quickly and can invalidate the vehicle operating permit.

- ▶ Only have the drive system and associated parts serviced at a qualified specialist workshop.

### Two-way radios

#### 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.

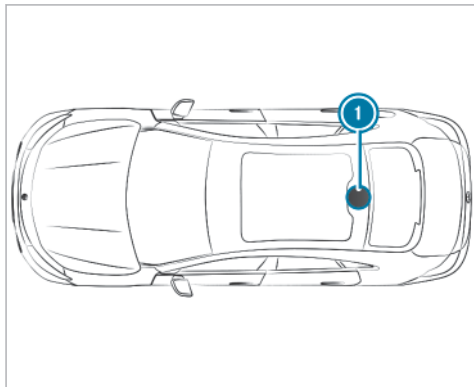


**NOTE** Invalidation of the operating permit due to failure to comply with the instructions for installation and use

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.





Apply technical specification ISO/TS 21609 (Road Vehicles – "EMC guidelines for installation of aftermarket radio frequency transmitting equipment") when retrofitting two-way radios. Comply with the legal requirements for detachable parts.

If the vehicle is equipped with a pre-installation for a two-way radio, use the power supply and aerial connections provided in the pre-installation.

Observe the manufacturer's supplement during installation.

### 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
Mobile phone 2G	2 W
Mobile phone 3G/4G/5G	0.5 W

The following 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 -410 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:

- Terrestrial Trunked Radio (TETRA)
- 2G/3G/4G/5G

### 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)	$\leq 72$ dB $\mu$ A/m at 10m
Wireless Power Transmission	105 kHz (90–119 kHz)	$\leq 42$ dB $\mu$ A/m at 10m
Remote Keyless Entry	120 kHz (119–135 kHz)	$\leq 42$ dB $\mu$ A/m at 10m
Wireless Power Transmission	127 kHz (119–135 kHz)	$\leq 66$ 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	$\leq 42$ dB $\mu$ A/m at 10m
Remote Keyless Entry, Garage Door Opener, Tire Pressure Monitoring	433 MHz (433.05–434.79 MHz)	$\leq 10$ mW ERP
Block Heater Remote Control, Garage Door Opener	868 MHz (868.0–868.6 MHz)	$\leq 25$ mW ERP
Block Heater Remote Control, Garage Door Opener	869 MHz (868.7–869.2 MHz)	$\leq 25$ mW ERP
Bluetooth, Kleer, RLAN, wireless Headphones	2.4 GHz ISM band (2400–2483.5 MHz)	$\leq 100$ mW EIRP
RLAN	5.1 GHz UNII-1 (5150–5250 MHz)	$\leq 40$ mW EIRP



Technology	Frequency range	Transmission output/magnetic field strength
Interior Monitoring Radar, RLAN	5.8 GHz UNII-3 (5725–5875 MHz)	≤ 40 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
24 GHz radar	24 GHz ISM band (24.15–24.25 GHz)	≤ 100 mW EIRP
76 GHz radar	76–77 GHz	≤ 55 dBm peak EIRP
79 GHz radar	77–79 GHz	≤ 55 dBm peak EIRP
Compensator ECE DE003 and ECE DE004	GSM (E-GSM 900) GSM (E-GSM 1800)	< +33 dBm < +30 dBm
	UMTS (I, III, VIII)	< +23 dBm
	LTE (B1, B3, B7, B8, B20)	< +23 dBm
HERMES (Hardware for Enhanced Remote, Mobility & Emergency Services)	WLAN (2400–2483.5 MHz) WLAN (5736–5833 MHz)	< 20 dBm < 14 dBm



Technology	Frequency range	Transmission output/magnetic field strength
	GSM (E-GSM 900, Class 4)	< +33 dBm ( $\pm 2$ dB)
	GSM (E-GSM 1800, Class 1)	< +30 dBm ( $\pm 2$ dB)
	GSM (E-GSM 900 8-PSK, Class E2)	< +27 dBm ( $\pm 3$ dB)
	GSM (E-GSM 1800 8-PSK, Class E2)	< +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)	< +32.5 dBm ( $\pm 1$ dB)
	GSM (E-GSM 1800 / E-GSM 1900, Class 4)	< +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)
	LTE (TDD B38, B40, B41, Class 3)	< +23 dBm ( $\pm 1$ dB)
	GNSS (1559–1610 MHz)	Receiving only



Further information and updates are available at the following web address:

<https://regulatoryradioinformation.corpinter.net/en>



### Regulatory radio identifiers / 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 information on wireless vehicle components

Further information and updates are available at the following web address:

<https://regulatoryradioinformation.corpinter.net/en>



### 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

Manufacturer	Manufacturer information
Bury	BURY SP. Z O.O., UL. WOJSKA POLSKIEGO 4, 39-300 Mielec, Poland
Continental Antenna	Continental Advanced Antenna GmbH, Römerring 1, 31137 Hildesheim, Germany
Continental Automotive	Continental Automotive GmbH, Siemensstraße 12, 93055 Regensburg, Germany
Continental Automotive Technologies	Continental Automotive Technologies GmbH, VDO-Straße 1, 64832 Babenhausen, Germany



Manufacturer	Manufacturer information
Gentex	Gentex Corporation, 600 North Centennial Street, Zeeland MI 49464, USA
Harman Becker	Harman Becker Auto- motive Systems GmbH, Becker-Goehr- ing-Straße 18, 76307 Karlsbad, Germany
HELLA	HELLA KGaA Hueck & Co., Rixbecker Straße 75, 59552 Lippstadt, Germany
Hirschmann	Hirschmann Car Com- munication GmbH, Stuttgarter Straße 45-51, 72654 Neckar- tenzlingen, Germany

Manufacturer	Manufacturer information
Huf Baolong	Huf Baolong Electron- ics Bretten GmbH, Gewerbestraße 40, 75015 Bretten, Ger- many
HUF	HUF Hülsbeck & Fürst GmbH & Co. KG, Steege Straße 17, 42551 Velbert, Ger- many
MARQUARDT	MARQUARDT GmbH, Schloßstraße 16, 78604 Rietheim-Weil- heim, Germany
Meta System	Meta System S.P.A., Via T. Galimberti 5, 42124 Reggio Emilia, Italy

Manufacturer	Manufacturer information
Molex	Molex CVS Daben- dorf GmbH, Märkische Straße 72, 15806 Zos- sen, Germany
Molex Technologies	Molex Technologies GmbH, Mizarstraße 3, 12529 Schönefeld, Germany
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, Uni- ted Kingdom



Manufacturer	Manufacturer information
Sennheiser	Sennheiser electronic GmbH & Co. KG, Am Labor 1, 30900 Wedemark, Germany
Valeo	Valeo Telematik und Akustik GmbH, Max-Planck-Straße 28-32, 61381 Friedrichsdorf Germany
Veoneer	Veoneer Sweden AB, Wallentinsvägen 22, 44737 Vårgårda, Sweden

Manufacturer	Manufacturer information
Vitesco	Vitesco Technologies GmbH, Siemensstrasse 12, 93055 Regensburg Germany
WITTE-Velbert	WITTE-Velbert GmbH & Co. KG, Hoferstr. 3-15, 42551 Velbert, Germany

Algeria

<div><b>Agréé par l'ANF</b> <b>Référence du Certificat de conformité</b></div>
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<div><b>Homologué par l'ARPCE</b> <b>Référence du Certificat de conformité</b></div>
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Regulatory radio identifiers

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	CMKG2 (locking system)	136/H/ANF/2023



Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	MARS Keyless (locking system)	122/H/ANF/2021
HELLA	DM4 (locking system)	123/H/ANF/2021
Hirschmann	920287A (locking system)	106/H/ANF/2020
Hirschmann	920287B (locking system)	107/H/ANF/2020
Hirschmann	920702A (locking system)	133/H/ANF/2022
Huf Baolong	TSSRE4A (tyre pressure sensor)	198/H/ANF/2021

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF13145 (locking system)	105/H/ANF/2022
MARQUARDT	DC12A (locking system)	188/H/ANF/2021
MARQUARDT	DC12B (locking system)	189/H/ANF/2021
MARQUARDT	DC12K (locking system)	190/H/ANF/2021
MARQUARDT	MS5 (locking system)	195/H/ANF/2021
MARQUARDT	MK1 (locking system)	193/H/ANF/2021
MARQUARDT	MK2 (locking system)	194/H/ANF/2021


Manufacturer	Model designation	Radio equipment approval number
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
Schrader	BG3FP4 (tyre pressure sensor)	56/H/ANF/2021
Schrader	GG4T (tyre pressure sensor)	3994/1.69-DA/ 2098/DT/DG/ARPT/17



Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure sensor)	2695/1-NO.431396/DT/DG/ARPT/17
WITTE-Velbert	SDHTAG3NFC (locking system)	32/H/ANF/2021

## Argentina

## Regulatory radio identifiers

		
Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	C-18005
ADC	ARS6-A (radar sensor)	H-28818
ADC	ARS441DP10 (radar sensor)	C-2377
Continental Antenna	RKE213E1 (aerial amplifier)	H-26206
Continental Antenna	RKE223E1 (aerial amplifier)	H-24637



Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	H-24376
Continental Automotive	CMKG2 (locking system)	H-28998
Continental Automotive	MARS Keyless (locking system)	H-17929
Continental Automotive	D-WMI2020A (control unit)	H-23974
Continental Automotive Technologies	NTG7Q MID LF2 (head unit)	C-29127
Continental Automotive Technologies	NTG7Q HIGH LF2 (head unit)	C-29126





Manufacturer	Model designation	Radio equipment approval number
Continental Automotive Technologies	NTG7Q PRE-MIUM LF2 (head unit)	C-29128
Continental Automotive Technologies	NTG7Q PRE-MIUMPLUS LF2 (head unit)	C-29930
HELLA	DM4 (locking system)	H-17845
Hirschmann	920287A (locking system)	H-15694
Hirschmann	920287B (locking system)	H-15695



Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920702A (locking system)	H-28310
Huf Baolong	TSSRE4A (tyre pressure sensor)	H-27592
HUF	HUF13145 (locking system)	H-28067
HUF	HUF14632 (locking system)	H-15541
HUF	HUF4761 (locking system)	H-11545



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	H-17689
MARQUARDT	DC12B (locking system)	H-21034
MARQUARDT	DC12K (locking system)	H-21035
MARQUARDT	MS2 (locking system)	H-17598
MARQUARDT	MS4 (locking system)	H-23101
MARQUARDT	MS5 (locking system)	H-24933
MARQUARDT	MS7 (locking system)	H-29810





Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	H-17213
MARQUARDT	MK2 (locking system)	H-17212
MARQUARDT	MK3 (locking system)	H-30378
MARQUARDT	3350.38 (locking system)	H-23166
MARQUARDT	MU3 (locking system)	H-30159
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





Manufacturer	Model designation	Radio equipment approval number
Vitesco	HFA30 (Handsfree-Access)	H-30148
WITTE-Velbert	SDHTAG3NFC (locking system)	H-24664




Australia

Regulatory radio identifiers

	
Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS6-A (radar sensor)
ADC	ARS4-C (radar sensor)
ADC	ARS441DP10 (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRRre14FCR (radar sensor)
Bosch	F5CP12 (radar sensor)

	
Manufacturer	Model designation
Continental Antenna	RKE213E1 (aerial amplifier)
Continental Antenna	RKE223E1 (aerial amplifier)
Continental Automotive	CMKG1 (locking system)
Continental Automotive	CMKG2 (locking system)
Continental Automotive	MARS Keyless (locking system)
Continental Automotive Technologies	NTG7Q MID LF2 (head unit)
Continental Automotive Technologies	NTG7Q HIGH LF2 (head unit)

	
Manufacturer	Model designation
Continental Automotive Technologies	NTG7Q PREMIUM LF2 (head unit)
Hirschmann	920287A (locking system)
Hirschmann	920287B (locking system)
Hirschmann	920702A (locking system)
Huf Baolong	TSSRE4A (tyre pressure sensor)
HUF	HUF13145 (locking system)
MARQUARDT	MK1 (locking system)
MARQUARDT	MK2 (locking system)





Manufacturer	Model designation
MARQUARDT	MK3 (locking system)
MARQUARDT	3350.38 (locking system)
MARQUARDT	MU3 (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	77V12BSM (radar sensor)
Veoneer	77V12CRN (radar sensor)
Veoneer	77V125CRN (radar sensor)
Veoneer	MMRV1 (radar sensor)

## Bahamas

### Regulatory radio identifiers

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	URCA_TA_2014_082
ADC	ARS6-A (radar sensor)	URCA_TA_2023_211
ADC	ARS4-C (radar sensor)	URCA_TA_2019_167
Bosch	MRR1Rear (radar sensor)	URCA_TA/2017_184
Bosch	MRR14FCR (radar sensor)	URCA_TA/2017_157
Bosch	FR5CPCCF (radar sensor)	URCA_TA_2019_195
Bosch	F5CP12 (radar sensor)	URCA_TA_2022_077



Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	URCA_TA/2020_068
Continental Automotive	CMKG2 (locking system)	URCA_TA/2023_028
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
HELLA	RS6 (locking system)	URCA_TA_2023_174

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	URCA_TA/2019_053
Hirschmann	920287B (locking system)	URCA_TA/2019_052
Hirschmann	920702A (locking system)	URCA_TA/2022_043
HUF	HUF13145 (locking system)	URCA_TA_2022_057
HUF	HUF14632 (locking system)	URCA_TA/2015_087
HUF	HUF4761 (locking system)	URCA_TA/2015_087

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure sensor)	URCA_TA/2017_094
MARQUARDT	DC12A (locking system)	URCA_TA_2017_042
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, URCA_TA_2022_228



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	URCA_TA/2015_031
MARQUARDT	MK2 (locking system)	URCA_TA/2015_033
MARQUARDT	MK3 (locking system)	URCA_TA_2024_025
MARQUARDT	3350.38 (locking system)	URCA_TA/2019_250
MARQUARDT	MU3 (locking system)	URCA_TA/2023_245
MARQUARDT	MUB1 (locking system)	URCA_TA/2024_060
Schrader	AG5SP4 (tyre pressure sensor)	URCA_TA_TA/2015_009

Manufacturer	Model designation	Radio equipment approval number
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
Valeo	ARTEMIS-SUB-01 (tyre pressure sensor)	URCA_TA_2024_056
Veoneer	77V12BSM (radar sensor)	URCA_TA_2019_169

Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12CRN (radar sensor)	URCA_TA_2019_168
Veoneer	77V125CRN (radar sensor)	URCA_TA_2021_027
Veoneer	MMRV1 (radar sensor)	URCA_TA/2015_063
Vitesco Technologies	HFA30 (Handsfree-Access)	URCA_TA_2023_247
WITTE-Velbert	SDHTAG3NFC (locking system)	URCA_TA_2020_056



## Belarus

## Regulatory radio identifiers



Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS4-C (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRR14FCR (radar sensor)
Bosch	FR5CPCCF (radar sensor)
Bosch	F5CP12 (radar sensor)
Continental Antenna	RKE213E1 (aerial amplifier)



Manufacturer	Model designation
Continental Antenna	RKE223E1GNS (aerial amplifier)
Continental Automotive	CMKG1 (locking system)
Continental Automotive	CMKG2 (locking system)
Continental Automotive	MARS Keyless (locking system)
Harman Becker	HERMES 3.0 (communication module)
HELLA	DM4 (locking system)
HUF	HUF13145 (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	MK3 (locking system)





Manufacturer	Model designation
MARQUARDT	3350.38 (locking system)
MARQUARDT	MU3 (locking system)
MARQUARDT	MUB1 (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 identifiers

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	BOCRA/TA/2018/2026
ADC	ARS6-A (radar sensor)	BOCRA/TA/2022/7599
ADC	ARS4-C (radar sensor)	BOCRA/TA/2020/5186
Bosch	MRR14FCR (radar sensor)	BOCRA/TA/2019/4674
Bosch	FR5CPCCF (radar sensor)	BOCRA/TA/2019/4975
Bosch	MRR1Rear (radar sensor)	BOCRA/TA/2017/3788
Bosch	F5CP12 (radar sensor)	BOCRA/TA/2022/7110

Manufacturer	Model designation	Radio equipment approval number
Continental Antenna	RKE213E1 (aerial amplifier)	BOCRA/TA/2019/4387
Continental Antenna	RKE223E1GN S (aerial amplifier)	BOCRA/TA/2019/5050
Continental Automotive	CMKG1 (locking system)	BOCRA/TA/2019/5075
Continental Automotive	CMKG2 (locking system)	BOCRA/TA/2023/8144
Continental Automotive	MARS Keyless (locking system)	BOCRA/TA/2019/4661
HELLA	DM4 (locking system)	BOCRA/TA/2019/4662
HELLA	RS6 (locking system)	BOCRA/TA/2023/8610



Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	BOCRA/TA/2019/4724
Hirschmann	920287B (locking system)	BOCRA/TA/2019/4723
Hirschmann	920702A (locking system)	BOCRA/TA/2022/7099
HUF	HUF13145 (locking system)	HUF13145
HUF	HUF4761 (locking system)	BOCRA/TA/2019/4664
MARQUARDT	DC12A (locking system)	BOCRA/TA/2019/4389

Manufacturer	Model designation	Radio equipment approval number
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
MARQUARDT	MS5 (locking system)	BOCRA/TA/2020/5473
MARQUARDT	MK1 (locking system)	BOCRA/TA/2019/4359
MARQUARDT	MK2 (locking system)	BOCRA/TA/2019/4360

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	BOCRA/TA/2019/4687
MARQUARDT	MU3 (locking system)	BOCRA/TA/2023/8771
Veoneer	77V12BSM (radar sensor)	BOCRA/TA/2019/4975
Veoneer	77V12CRN (radar sensor)	BOCRA/TA/2019/4980
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 identifiers

		
Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	02217-14-06 068
ADC	ARS441DP10 (radar sensor)	06783-19-02 496
Bury	A167 820 19 03 /A247 820 84 02 (mobile phone charger)	20280-23-04 457

		
Manufacturer	Model designation	Radio equipment approval number
Bury	A247 820 86 02 (mobile phone charger)	20288-23-04 457
Continental Antenna	RKE223E1 (aerial amplifier)	03691-15-05 298
Continental Antenna	RKE213E1 (aerial amplifier)	07359-21-12 817
Continental Antenna	RKE213E1 (aerial amplifier)	3691-15-529 8

		
Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG1 (locking system)	00325-20-02 149
Continental Automotive	CMKG2 (locking system)	01334-23-02 149
Continental Automotive	MARS Keyless (locking system)	03189-17-02 856
Continental Automotive Technologies	NTG7Q MID LF2 (head unit)	12520-23-06 353
Continental Automotive Technologies	NTG7Q HIGH LF2 (head unit)	12525-23-06 353





Manufacturer	Model designation	Radio equipment approval number
Continental Automotive Technologies	NTG7Q PRE-MIUM LF2 (head unit)	12522-23-06353
Continental Automotive Technologies	NTG7Q PRE-MIUMPLUS LF2 (head unit)	17830-23-06353
HELLA	DM4 (locking system)	04689-17-05364
Hirschmann	920287A (locking system)	1855-12-5762



Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	1787-12-8058
Huf Baolong	TSSRE4A (tyre pressure sensor)	08539-19-03616
HUF	HUF13145 (locking system)	HUF13145
HUF	HUF14632 (locking system)	03627-15-06643



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	00053-13-06643
MARQUARDT	DC12A (locking system)	01333-17-02930
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





Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	11149-20-02930
MARQUARDT	3350.38 (locking system)	03149-19-02930
MARQUARDT	MK1 (locking system)	03756-15-02930
MARQUARDT	MK2 (locking system)	03757-15-02930
Molex Technologies	HUB-8 (mobile phone charger)	19286-23-12116



Manufacturer	Model designation	Radio equipment approval number
Molex Technologies	HUB-9d / HUB-9e (mobile phone charger)	19287-23-12116
Vitesco Technologies	HFA30 (Handsfree-Access)	18924-23-15869
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>

**Charging unit for the wireless charging of mobile devices (WMI):**

This device operates in secondary mode, that is to say it has no protection against harmful interference, not even from the same type of stations, and must not cause interference with systems operating on a primary basis.


This product is permitted in accordance with the procedure defined in Directive 242/2000 by the Brazilian telecommunications agency ANATEL and meets the applicable technical requirements.


More information is available on the ANATEL website. [www.anatel.gov.br](http://www.anatel.gov.br)




## Brunei Darussalam

## Regulatory radio identifiers

		
Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-C (radar sensor)	DTA-004005
ADC	ARS6-A (radar sensor)	DTA-020359
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	MRRe14FCR (radar sensor)	DTA-006678
Bosch	F5CP12 (radar sensor)	DTA-018042
Continental Antenna	RKE213E1 (aerial amplifier)	DTA-006665
Continental Antenna	RKE223E1GN S (aerial amplifier)	DTA-004998
Continental Automotive	CMKG1 (locking system)	DTA-005043

		
Manufacturer	Model designation	Radio equipment approval number
Continental Automotive	CMKG2 (locking system)	DTA-023993
Continental Automotive	MARS Keyless (locking system)	DTA-017264
HELLA	DM4 (locking system)	DTA-020187
HELLA	RS6 (locking system)	AA-000081
Hirschmann	920287A (locking system)	DTA-001661





Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	DTA-000794
Hirschmann	920702A (locking system)	DTA-018051
Huf Baolong	TSSRE4A (tyre pressure sensor)	DTA-011045
Huf Baolong	TSSSG4G6b (tyre pressure monitor control unit)	DTA-003757



Manufacturer	Model designation	Radio equipment approval number
HUF	HUF13145 (locking system)	DTA-017926
HUF	HUF14632 (locking system)	DTA-006138
HUF	HUF4761 (locking system)	DTA-000615
MARQUARDT	DC12A (locking system)	DTA-019403
MARQUARDT	DC12B (locking system)	DTA-000068



Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	DTA-000066
MARQUARDT	MS2 (locking system)	LPD-38890
MARQUARDT	MS4 (locking system)	DTA-003525
MARQUARDT	MS5 (locking system)	DTA-005850
MARQUARDT	MS7 (locking system)	DTA-032943
MARQUARDT	MK1 (locking system)	DTA-011312





Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	DTA-011313
MARQUARDT	MK3 (locking system)	DTA-031059
MARQUARDT	3350.38 (locking system)	DTA-032673
MARQUARDT	MU3 (locking system)	DTA-029861
MARQUARDT	MUB1 (locking system)	DTA-032674



Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure sensor)	DTA-005291
Schrader	AG3PF4 (tyre pressure sensor)	DTA-003581
Schrader	BG3FP4 (tyre pressure sensor)	DRQ-D-JATI-07-2000-109000
Schrader	DG6W2D4 (tyre pressure sensor)	DTA-025258



Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure sensor)	DTA-025258
Schrader	BG3FP4 (tyre pressure sensor)	DTA-025258
Schrader	MFR (tyre pressure monitor control unit)	DTA-003893
Schrader	MFR3 (tyre pressure monitor control unit)	DRQ-D-MAJU-02-2011-111083





Manufacturer	Model designation	Radio equipment approval number
Valeo	ARTEMIS-SUB-01 (locking system)	DTA-031587
Veoneer	77V12BSM (radar sensor)	DTA-004000
Veoneer	77V12CRN (radar sensor)	DTA-003999
Veoneer	77V125CRN (radar sensor)	DTA-010423
Veoneer	77GHz MMRV1 (radar sensor)	DTA-006216



Manufacturer	Model designation	Radio equipment approval number
Vitesco Technologies	HFA30 (Handsfree-Access)	DTA-030296
WITTE-Velbert	SDHTAG3NFC (locking system)	DTA-005628

## Eurasian Economic Union

## Regulatory radio identifiers



Manufacturer	Model designation
ADC	ARS4-A (radar sensor)
ADC	ARS4-C (radar sensor)
ADC	ARS441DP10 (radar sensor)
Bosch	FR5CPCCF (radar sensor)
Bosch	LRR3 (radar sensor)
Bosch	MRR1Rear (radar sensor)
Bosch	MRRe14FCR (radar sensor)





Manufacturer	Model designation
Bosch	F5CP12 (radar sensor)
Continental Antenna	RKE213E1 (aerial amplifier)
Continental Antenna	RKE223E1GNS (aerial amplifier)
Continental Automotive	MARS Keyless (locking system)
Continental Automotive	CMKG1 (locking system)
Continental Automotive	CMKG2 (locking system)
HELLA	DM4 (locking system)
Hirschmann	920287A (locking system)



Manufacturer	Model designation
Hirschmann	920287B (locking system)
Hirschmann	920702A (locking system)
Huf Baolong	TSSRE4A (tyre pressure sensor)
HUF	HUF13145 (locking system)
HUF	HUF4761 (locking system)
HUF	HUF14632 (locking system)
MARQUARDT	DC12A (locking system)



Manufacturer	Model designation
MARQUARDT	DC12B (locking system)
MARQUARDT	DC12K (locking system)
MARQUARDT	MS2 (locking system)
MARQUARDT	MS4 (locking system)
MARQUARDT	MS5 (locking system)
MARQUARDT	MS7 (locking system)
MARQUARDT	MK1 (locking system)
MARQUARDT	MK2 (locking system)
MARQUARDT	MK3 (locking system)
MARQUARDT	3350.38 (locking system)



**Manufacturer****Model designation**

MARQUARDT	MU3 (locking system)
MARQUARDT	MUB1 (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 identifiers**

Manufacturer	Model designation	Radio equipment approval number
		NCA APPROVED
ADC	ARS4-C (radar sensor)	ZRO-1H-7E3-152
ADC	ARS6-A (radar sensor)	7E6-M1-16C-SRD
ADC	ARS441DP10 (radar sensor)	ZRO-1H-7E3-152
Bosch	FR5CPCCF (radar sensor)	ZRO-M8-7E3-230
Bosch	F5CP12 (radar sensor)	7E6-M1-X9B-SRD



Manufacturer	Model designation	Radio equipment approval number
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
Continental Automotive	CMKG2 (locking system)	7M-7E7-X25-DSR
Continental Automotive	MARS Keyless (locking system)	BR3-1M-GE2-16A
Continental Automotive Technologies	NTG7Q MID LF2 (head unit)	7M-7E7-X09-DSR

Manufacturer	Model designation	Radio equipment approval number
Continental Automotive Technologies	NTG7Q HIGH LF2 (head unit)	7M-7E7-X05-DSR
Continental Automotive Technologies	NTG7Q PRE-MIUM LF2 (head unit)	7M-7E7-X03-DSR
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	HUF13145 (locking system)	7E6-M1-X14-SRD

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	EX6-6M-GE2-16C
LEOPOLD KOSTAL	KK1 (locking system)	ZRO-M8-7E3-X49
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





Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS5 (locking system)	SRO-1M-7E4-11B
MARQUARDT	MK1 (locking system)	ZRO-M8-7E3-X4A
MARQUARDT	MK2 (locking system)	ZRO-M8-7E3-X4C
MARQUARDT	MK3 (locking system)	HS-7E7-262-DSR
MARQUARDT	3350.38 (locking system)	ZRO-M8-7E3-X3C
MARQUARDT	MU3 (locking system)	HS-7E7-XE5-DSR
Valeo	ARTEMIS-SUB-01 (locking system)	7M-7E7-272-DSR







Manufacturer	Model designation	Radio equipment approval number
Veoneer	77V12BSM (radar sensor)	ZRO-1H-7E3-142
Veoneer	77V12CRN (radar sensor)	ZRO-M8-7E3-230
Veoneer	77V125CRN (radar sensor)	7E5-7M-X72-RDR
Vitesco Technologies	HFA30 (Handsfree-Access)	7M-7E7-134-DSR
WITTE-Velbert	SDHTAG3NFC (locking system)	SRO-1M-7E4-X59

Indonesia



Regulatory radio identifiers


Manufacturer	Model designation	Radio equipment approval number
ADC	ARS3-A (radar sensor)	97128 / SDPPI/2024 7163 
ADC	ARS3-B (radar sensor)	97129 / SDPPI/2024 7163 



Manufacturer	Model designation	Radio equipment approval number	Manufacturer	Model designation	Radio equipment approval number	Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-B (radar sensor)	97127/ SDPPI/ 2024 7163 	ADC	ARS4-A (radar sensor)	90362/ SDPPI/2023 7163 	ADC	ARS441DP10 (radar sensor)	89748/ SDPPI/2023 7163 
ADC	ARS4-C (radar sensor)	68676/ SDPPI/2020 7163 	ADC	ARS6-A (radar sensor)	84770/ SDPPI/2022 7163 	Bosch	LRR3 (radar sensor)	74264/ SDPPI/2021 7163 





Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensor)	74267/ SDPPI/2021 7163 
Bosch	MRRevo14F (radar sensor)	74265/ SDPPI/2021 7163 


Manufacturer	Model designation	Radio equipment approval number
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
Bosch	F5CP12 (radar sensor)	86858/ SDPPI/2022 84754  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)	86957 / SDPPI/ 2022 10325  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)	87836/SDPPI/2023 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	CMKG2 (locking system)	88721 / SDPPI/2023 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 (control unit)	66678/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 MID (Headunit) Production: Hungary	92192/SDPPI/2023 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) Production: Hungary	92190/SDPPI/2023 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) Production: Hungary	92188/SDPPI/2023 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 PREMIUM PLUS (Headunit) Production: Hungary	92195/SDPPI/2023 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 Technologies	NTG7Q MID LF2 (head unit)	88477/SDPPI/2023 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 Technologies	NTG7Q HIGH LF2 (head unit)	88579 / SDPPI/2023 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 Technologies	NTG7Q PRE-MIUM LF2 (head unit)	88478/SDPPI/2023 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	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
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	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
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	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 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
Hirschmann	920702A (locking system)	82675 / 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
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
HUF	HUF4761 (locking system)	26742/ SDPPI/2015 3533    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	HUF13145 (NFC reader)	83988/ SDPPI/2022    Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan sekitarnya





Manufacturer	Model designation	Radio equipment approval number
		
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)	<p>64126/ SDPPI/2019 7163</p>  <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
MARQUARDT	MS5 (locking system)	<p>90695/ SDPPI/2023 7163</p>  <p>Dilarang melakukan perubahan spesifikasi yang dapat menimbulkan gangguan fisik dan/atau elektromagnetik terhadap lingkungan</p>





Manufacturer	Model designation	Radio equipment approval number
		gan sekitarnya 

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  <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
MARQUARDT	3350.38 (locking system)	82980/ SDPPI/2022 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
Molex	WCH-302b (control unit)	71 668/ 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
		