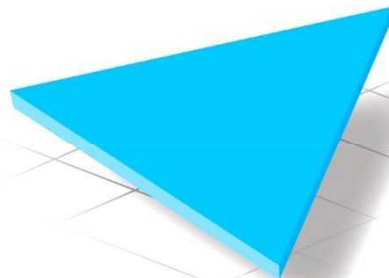


Bedienungsanleitung  
Operating manual  
Bruksanvisning  
Gebruiksaanwijzing  
Mode d'emploi  
Instruções de uso  
Instrucciones de funcionamiento  
Istruzioni per l'uso  
Instrukcja obsługi  
Návod k obsluze



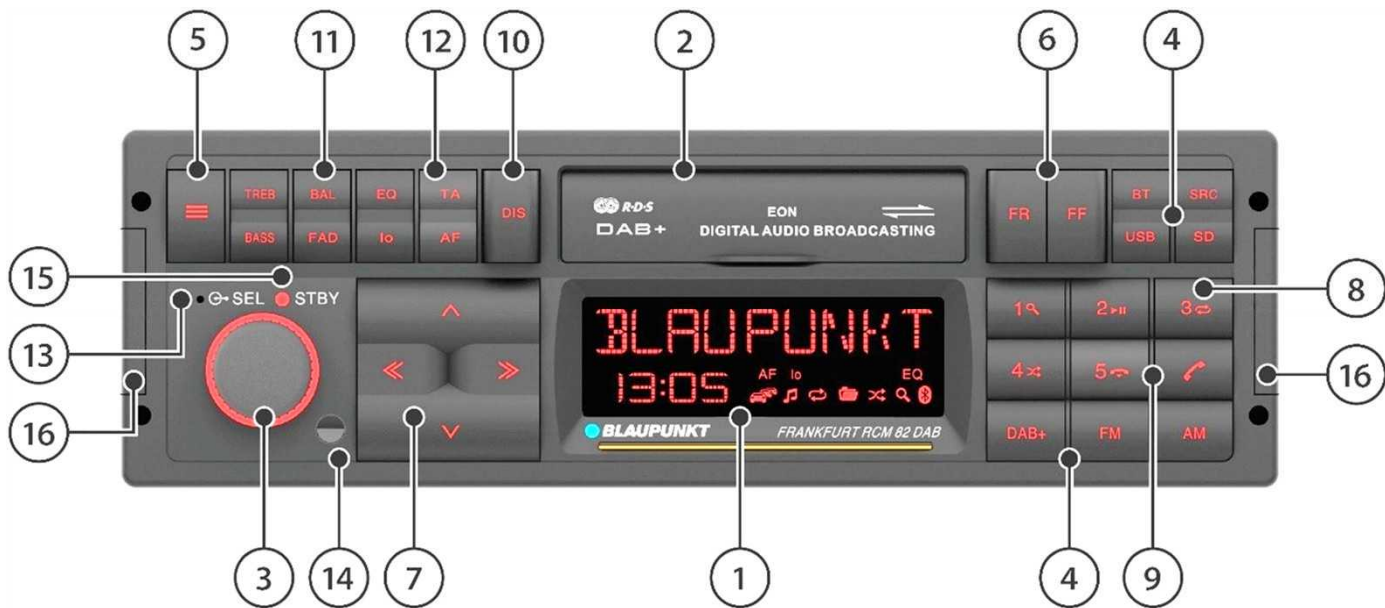
Frankfurt RCM 82 DAB

 **BLAUPUNKT**



# 1. Car Radio Controls

EN



### ① LC display

Displays information including the source, current station, track, time and setting options

### ② Hidden microSD/USB and AUX inputs (left to right)

Open the flip cover by pulling lightly from the bottom by the protruding bottom edge.

### ③ Volume control/on/off dial

Turn to adjust the volume up/down

Short press to turn on the car radio, mute the car radio

Long press to turn off the car radio

### ④ **SRC** button / direct selection source buttons **BT, USB, SD, DAB+, FM, AM**

Short press to selects the audio source.

Press SRC to toggle through the available audio sources. Some of the sources may be disabled (see "SETTINGS") or will not be available if no device is connected (e.g. AUX).

Long press **SRC** to play a station/track (SCAN)

### ⑤ Menu button

Short press to open/close the menu (see "SETTINGS")

Long press to enable preset stations (P-SCAN) for VHF/DAB

### ⑥ **FR / FF** buttons

Control the source-specific functions (PTY search, fast rewind, fast forward, band search)

### ⑦ Multifunction rocker switch

Controls source-specific functions.

▲ / ▼ for toggling through manual search, folder change, band change, menu navigation, menu settings change

<< / >> for toggling through search, track change, service change, setting selection or acknowledging/one step back in the menu.

### ⑧ Station buttons **1-5**

Short press to select a station or a stored telephone number or to display a secondary function/special function such as track search (browsing), play/pause, repeat function, random playback, depending on the source selected

Long press to search preset radio stations and phone numbers

### ⑨ Phone handset

"Answer" button

Short press to answers calls/dial a number

Long press to enable the Softkey option (see "BLUETOOTH® HANDS FREE")

"Disconnect" button

Short press to ends/reject a call

Long press ./.

⑩ **DIS** button

Short press to toggle between different information to be displayed depending on the source selected

Long press to toggle between the display brightness settings (if the brightness is set to MANUAL in the menu, see "SETTINGS")

⑪ Direct access keys **TREB, BASS, BAL, FAD, EQ** for sound settings

Short press **EQ** to display the SOUND PRESET option

Long press **EQ** to display the EQUALIZER

⑫ Direct access radio function keys (**lo, TA, AF**)

⑬ Microphone

A hands-free system microphone (only active when no external microphone is connected)

⑭ IR LED

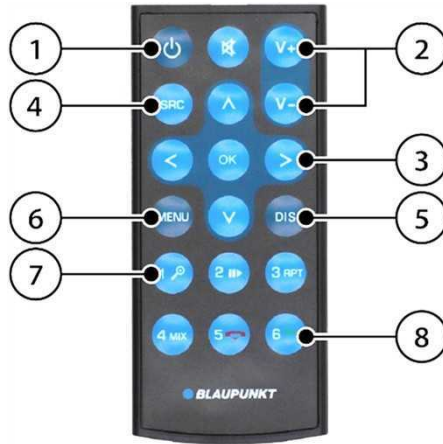
A receiver for an optional infrared remote control.

⑮ STBY LED (see "SETTINGS")

⑯ Caps covering the holes for the unlocking tool, see "INSTALLATION, DISSASSEMBLY AND CONNECTIONS"

## 2. Controls, Remote Control (Optional Accessories)

The car radio can be operated remotely using the remote control sensor built into the front of the unit. This is possible with a remote control that is available as an accessory to the radio, or using older Blaupunkt remote controls (RC-08, RC-09, RC-10, RC-10H, RC-12H).



### ① On/Off button

➡ Tip: use the remote control to turn on the car radio only when you start the ignition. The remote function increases the quiescent current of the car radio so it cannot be used without the ignition on to protect the vehicle battery.

### ② Volume/mute buttons

### ③ Multifunction buttons Control source-specific functions

### ④ SRC (source) button

Audio source selection: toggle between the available audio sources. Some of the sources can be deactivated, see "SETTINGS".

### ⑤ DIS button Switches over the display

### ⑥ MENU button Enters the menu

### ⑦ Preset station buttons

Selecting a station or the secondary function such as pause/repeat/random playback, depending on the source selected

### ⑧ Phone buttons: Answer and end calls.

## 3. Congratulations

Congratulations on the purchase of your new Blaupunkt product. Please read this User Manual carefully to enjoy it for a long time.

However, if unexpected problems arise, check this User Manual to see if you can solve the issues yourself. Please also read the TROUBLESHOOTING section at the end of this User Manual.

Your Blaupunkt dealer and the Blaupunkt Service Department will be happy to help you if you cannot solve a problem yourself. Our contact information can be found at [www.blaupunkt.com](http://www.blaupunkt.com).

NOTE: This manual may apply to different models with different features, so some features and options may not be available on your model or may differ.

Furthermore, technical changes for further development and improvement of the product are reserved.

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## 4. Safety

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### Safety

The car radio has been manufactured according to the current state of the art and specified safety guidelines. However, hazards may occur if the safety instructions in this User Manual are not followed. Read this User Manual to learn the major features and operation of the device.

- Read this manual carefully before installing or using the car radio.
- Keep the User Manual in a place that is accessible to all users.
- When selling the car radio on to another user, include this User Manual.
- Follow the manuals of the devices (if any) used together with the car radio.

### Symbols

The following symbols are used throughout this User Manual.



DANGER! Warns of injuries



CAUTION! Warns of the risk of damage to the DVD/CD drive or media in use



WARNING! High volume warning



The CE mark certifies compliance with EU directives



Tip



List

## Road traffic safety

Please follow the road traffic safety instructions provided below



### **DANGER! Use the car radio in such a way that you can drive safely at all times.**

Using the car radio functions when driving can distract you from the situation on the road and lead to serious accidents!

Avoid all activities that distract you from the traffic situation and from driving your vehicle carefully.



Use the car radio in such a way that you can drive safely at all times. If necessary, stop the vehicle in a safe place and operate the radio with the vehicle stationary. The drivers of the vehicle must not use any apps that distract them from driving.



Always listen to the radio at a moderate volume to protect your hearing and be able to hear audible warning signals (e.g. from the police). When you use the Mute feature (e.g. when toggling through the sound sources), adjusting the volume cannot be heard. Do not increase the volume after you use the Mute feature.

## General safety

Do not modify or open the car radio. There are no user-serviceable parts inside.

Use as intended

This car radio is intended for installation and operation in a vehicle with 12 V supply voltage and must be installed in a DIN slot. It is necessary to observe the performance limits of the car radio.

Have repairs and, if necessary, installation done by a professional.

## 5. General Information | Package Contents | Software Update

EN

### Declaration of conformity

Blaupunkt Competence Center Car Multimedia Evo Sales GmbH hereby declares that the car radio complies with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Find the Declaration at [www.blaupunkt.com](http://www.blaupunkt.com). Should it be unavailable there, we will provide them upon request.

### Trademark information

All other trademarks and their logos, brand names or company names mentioned in this User Manual are used for identification purposes only and are the property of their respective owners.

### Cleaning

Solvents, cleaning and abrasive agents, as well as cockpit sprays, air fresheners and plastic care products can contain substances that will damage the surface of your car radio. Use only a dry or slightly damp cloth to clean the car radio.

### Disposal



Do not dispose of the used radio in household waste! Use available return and collection systems to dispose of your old radio and accessories.

### Package contents

The package includes the following items:

- . Car radio
- . User Manual
- . External microphone
- . ISO A/ISO B connection cable
- . Mounting frame + disassembly tool
- . DIN-ISO antenna adapter

## Software updates

The car radio software can be updated from external storage media.

You can download all available updates for your radio from [www.blaupunkt.com](http://www.blaupunkt.com). Update instructions and further information are included with the update.

➤ Tip: if your car radio is working properly, an update is not necessary. Every update carries some risk of errors occurring during the process, and in some very rare cases – despite careful testing – new or different bugs may appear.

➤ Tip: individual components and functions of the car radio may differ from those stated in the Manual, as features may have been changed, added or even removed due to further software development. This is not a defect nor a reason for complaint.

➤ Tip: please provide as many details about issues you encounter in your radio as possible when requesting an update from Blaupunkt. The support consultant will also need the details of your currently installed software version (see "SETTINGS"). Unfortunately, we cannot help or provide updates unless we are given this information.

## 6. Switching On/Off | Adjusting Volume

### Switching on/off

Press the volume control dial to turn the device on.

To turn it off, press and hold the volume control dial for more than one second. Note that it may take a few seconds after turning the radio on before you can turn it off again, as the internal boot processes are still active in the background.

➤ Tip: the radio can also be switched on with the ignition off. If so, the display will then briefly show "1 HOUR ON". The

radio automatically shuts off after one hour to protect the vehicle battery.

### Switching on/off by means of the vehicle ignition

If the ignition is turned off while the car radio is running, it will automatically turn off and turn on again the next time the ignition is turned on.

If the car radio has been turned off by pressing the volume control dial, it will remain permanently turned off after the ignition is turned on/off until it is manually turned on again.

➤ Tip: If the function does not work as described, the car

radio has not been properly connected.

## Adjusting the volume

The volume can be adjusted using the volume control dial from 0 (no sound) to 40 (full volume).

The display shows the set volume level for a few seconds. Depending on the setting, the car radio saves the last volume or the preset volume when it is turned on again (see "SETTINGS").

### Setting the playback volume

Rotate the volume control dial during music playback to change the volume.

Setting the volume of traffic announcements (traffic announcements must be active in the settings, see "SETTINGS")

Turn the volume control dial during a traffic message to change the volume; the value is automatically saved and can be adjusted at any time in the settings (see "SETTINGS").

### Setting the Bluetooth® (telephone calls) volume

Turn the volume control dial during a phone call to change the volume. This value is saved automatically and can be adjusted at any time in the settings (see "SETTINGS").

In addition to that, you can, if needed, adjust the volume of the call and ringtone on the cell phone – refer to the phone manufacturer's manual.

Bluetooth®-BT-Navi-Mix volume control (messages from a connected cell phone with active navigation)  
In the Bluetooth® menu, you can set the volume level for navigation messages if the Bluetooth®-BT-Navi-Mix option is active. The volume can also be adjusted on the cell phone. Follow the instructions of the phone's manufacturer (see "PLAYING NAVIGATION MESSAGES THROUGH BLUETOOTH®").

## Muting your car radio

Press the volume control dial briefly to mute the car radio or return to the previous volume.



Always listen to the radio at a moderate volume to protect your hearing and be able to hear audible warning signals (e.g. from the police).

When you use the Mute feature (e.g. when toggling through the sound sources), adjusting the volume cannot be heard. Do not increase the volume after you use the Mute feature.

## 7. Analogue Radio VHF/Medium Wave (FM/AM)

Select one of the **FM1**, **FM2**, **FMT** or **AM** sources/memory levels using the **SRC** button or the **FM/AM** buttons

☛ Tip: some memory sources/levels are inactive depending on the setting; for example, only the **FM1** memory level is active by default. See "SETTINGS".

☛ Tip: there are 5 memory slots available for each memory level.

### Station search

Press << or >> on the multifunction rocker switch to start searching for channels down or up. The search stops automatically at the next station found.

☛ Tip: the search sensitivity can be set in the settings, see "SETTINGS".

You can also set the frequency manually if your desired station signal is too weak and the search does not stop at the desired frequency. To do this, press the buttons on the multifunction rocker switch **▲** or **▼** until the desired frequency is tuned.

### PTY search (FM only)

If the PTY (program type) function is active (see "SETTINGS"), press the **FR/FF** buttons to start the search for a preset PTY ID (presetting PTY types, see "SETTINGS").

### Storing/selecting saved stations

You can save your favourite stations in the station memory using the 1-5 buttons. Each memory level can store up to 5 stations.

Follow the procedure in "STATION SEARCH" to set the desired station. Then press and hold the preset station button for the selected station for more than one second until you can hear a sound acknowledging that the station has been saved; after the beep, release the button.

You can recall your saved station by briefly pressing the preset station button.

## Saving stations automatically (Travelstore)

In the memory levels marked with T (FMT, AMT), you can store up to 5 stations with the best signal strength using the automatic search (Travelstore). To do this, press and hold the FM or AM button for more than one second until the display shows FM TSTORE/AM TSTORE.

☛ Tip: if you run Travelstore at another memory level the system will automatically switch to the Travelstore memory level and automatically activate it in the settings if necessary.

Only the stations at the Travelstore memory level are saved/changed.

## Playing saved stations (P-SCAN)

You can play back all stations at the selected memory level. To do this, press and hold the **MENU** button for more than one second until the display shows P-SCAN. The display will now show P-SCAN and the current frequency/radio station. The P-SCAN message is displayed until cleared by pressing the button again.

## Playing the available stations (SCAN)

You can play all stations available in the selected frequency band. To do this, press and hold the **SRC** source selection button for more than one second until the display shows SCAN.

The display shows SCAN and the current radio frequency/station flashes.

SCAN will flash until the button is pressed again to stop it.



## Changing the display

Use the DIS button to toggle between different display content below.

- Station designation
- PTY (program type)
- Radio text
- Memory/memory level + frequency
- Memory/memory level + time

☛ Tip: availability of the specific display function depends on the selected band, transmitter and reception quality

**Further features/options:** see "SETTINGS".

## 8. Digital Radio: DAB/DAB+

Digital Audio Broadcasting (DAB or DAB+) is the digital successor to analogue VHF broadcasting. Digital transmission differs from the familiar analogue VHF radio in the following ways.

Several stations are broadcast on one channel, the so-called multiplex (ENSEMBLE) (= program packages).

The stations that fall within a given MULTIPLEX are called SERVICES (= stations and/or data services).

In Germany, for example, the MULTIPLEXES are available regionally from public broadcasters; moreover, there are currently two MULTIPLEXES that can be received throughout Germany: **DR DEUTSCHLAND** and **ANTENNE DE**. The stations do not output disagreeable noises known from VHF; a station is either heard with a consistent quality or breaks up when error correction is no longer able to reconstruct the signal, accompanied by short, so-called "bubbling" noises.

### Starting to play the DAB/DAB+ radio

Use the **SRC** or **DAB+** button to select the **DAB1**, **DAB2** or **DAB3** source.

If necessary, run a scan using the **DAB SERVICE SCAN** menu option (**DAB SERVICE SUCHE**) to find stations available in

your location (see "SETTINGS").

☛ Tip: some of the memory sources/levels are inactive depending on the setting; only the **DAB1** memory level is active by default. See "SETTINGS".

☛ Tip: there are 5 memory slots available for each memory level.

### Browsing services

Press << or >> on the multifunction rocker switch to browse the services available for your car radio.

When selected, a new service will be displayed; when the browse activity is discontinued, the currently displayed service will be recalled and played.

### Browsing multiplexes

Press ^ or v on the multifunction rocker switch to select the multiplex available on your radio.

When selected, a new multiplex will be displayed; when the browse activity is discontinued, the first service of the selected multiplex will be recalled and played.



## Searching for multiplexes

Press the **FR** or **FF** buttons to start a search, go back to the previous multiplex, or skip to the next received multiplex. The display shows a current channel during the search until you find a new multiplex.

■ Tip: this option is not available if PTY is enabled in the menu (see "SETTINGS").

## PTY Search

If the PTY (program type) function is active (see "SETTINGS"), you can toggle through stations known to your car radio with the corresponding PTY ID by pressing the **FR/FF** buttons (to pre-select the PTY type, see "SETTINGS").

## Searching lists of services/multiplexes (browse mode)

Press and hold **Λ** or **∇** on the multifunction rocker switch for more than one second to activate the browse mode. A magnifying glass icon will flash on the display and, depending on the content being displayed, a folder symbol (multiplex) or a note symbol (service).

Selecting a new service from a currently selected multiplex Start the browse mode (the display will now show the note symbol and a flashing magnifying glass).

Now, press **Λ/∇** on the multifunction rocker switch to browse services from the current multiplex. After finding the desired service, press **>>** on the multifunction rocker switch to play it.

Selecting a new service from a different multiplex than the one currently being played Start the browse mode (the display will now show the note symbol and a flashing magnifying glass).

Press **<<** on the multifunction rocker switch; the car radio will switch to the multiplex list (the display now shows the folder symbol and a flashing magnifying glass). Press **Λ/∇** on the multifunction rocker switch to select a multiplex, press **>>** to display the services included in the displayed multiplex (the display now shows a note symbol and a flashing magnifying glass).

Now, press **Λ/∇** on the multifunction rocker switch to browse services from the current multiplex. After finding the desired service, press **>>** on the multifunction rocker switch to play it.

## Exiting the browse mode

The browse mode goes off automatically after 15 seconds if no button is pressed. Alternatively, press **<<** when multiplexes are displayed or double press **<<** when services are displayed to exit the browse mode of the car radio.

■ Tip: the browse mode displays all services/multiplexes that are available on the respective car radio; the

multiplexes that are not currently available are also displayed. You can use the menu (see "SETTINGS") to start DAB SERVICE SCAN that updates the list of multiplexes and removes inactive multiplexes/services from it.

👉 **Tip:** you can choose the browsing mode as the default setting, see "SETTINGS".

### **Saving services/recalling saved services**

Favourite services can be stored under the preset stations buttons 1-5. Every memory level can store up to 5 stations. Set the desired service as described above.

Then press and hold the preset station button for a selected service for more than one second until you can hear a sound acknowledging that the service has been saved; after the beep, release the button. You can recall a saved service by briefly pressing the preset station button.

### **Playing saved stations/services (P-SCAN)**

You can play any station from the selected memory level. To do this, press and hold the MENU button for more than one second. The display will show P-SCAN and a current service.

The P-SCAN message is displayed until cleared by pressing the button again.

### **Playing available services (SCAN)**

Any available service can be played.

To do this, press and hold the SRC button for more than one second.

The radio will first update the service list performing a scan, and then display SCAN and a current service.

SCAN will flash and will go off when the button is pressed again.

### **Changing the display**

Use the DIS button to toggle between different display content below.

- Service name (station)
- PTY (program type)
- Radio text
- Multiplex name (program package)
- Memory/memory level + channel
- Memory/memory level + time

👉 **Tip:** the data display function availability depends on the service.

**Further features/options:** see "SETTINGS".

## 9. Playback from External Devices and Media: USB/microSD

### Overview

Data media/media types used:

- USB storage media with FAT16, FAT32, exFAT file system
- File formats: MP2, MP3, WMA, FLAC, M4A (AAC), APE, WAV

🔧 Tip: the trouble-free functioning of all media files, including those listed above, cannot be guaranteed due to the variety of software these files may be created with.

🔧 Tip: the USB port supports USB storage media (also known as USB sticks) which are classified as Mass Storage Devices (MSD). Direct connection of MP3 players or cell phones to play music is not possible.

### USB/microSD

This car radio has two USB ports and a microSD reader.

- Find the USB port behind the flip cover on the front of the car radio (see "CAR RADIO CONTROLS")
- Find the USB port on the back panel of the car radio (see "INSTALLATION")
- Find the microSD reader behind the flip cover on the front of the car radio (see "CAR RADIO CONTROLS")

### Connecting USB storage media/starting USB playback

Open the flip cover by pulling lightly from the bottom by the protruding bottom edge.

Plug the USB data carrier into the USB port carefully without forcing or bending the USB data carrier. The radio automatically switches to the USB mode. The data is loaded and the playback begins with the first media file recognised by the radio.

If a USB data carrier has been connected before, switch to the USB source with the **SRC** button or the **USB** button; the car radio will resume playback from the last track played.

### Inserting a microSD card/starting microSD playback

Open the flip cover by pulling lightly from the bottom by the protruding bottom edge.

Slide the microSD card into the card reader with the contacts facing down until it clicks into place. Be careful not to let go the card before it snaps, otherwise it may pop out and get lost. Do not force or twist the card when inserting it. The radio automatically switches to the SD

mode. The data is loaded and the playback begins with the first media file recognised by the radio.

If a microSD card has been inserted earlier, switch to the **SD** source using the **SRC** button or the SD button; the car radio will resume playback from the last track played.

### USB/microSD playback

Press << or >> on the multifunction rocker switch to play the previous or next track. Press and hold << or >> on the multifunction rocker switch to rewind or fast-forward a current track.

Press ▲ or ▼ to move backward or forward one folder on the storage media.

You can use the station buttons 1-4 to activate/deactivate the special functions: TRACK SEARCH (select/search for a track using the multifunction rocker switch), PLAY/PAUSE, REPEAT (TRACK or DIRECTORY), and RANDOM (ALL or DIRECTORY).

### Changing the display

Use the DIS button to toggle between different display content below.

- File name
- Folder name
- Track (ID3)
- Artist (ID3)
- Album (ID3)
- Playback time
- Total time
- Hour
- All information one by one (ALL INFO)

☛ Tip: the availability of the display function depends on the files used.

☛ Tip: after changing the title, the file name is always displayed first, followed by the selected information. If the folder is changed, the name of the folder will also be displayed.

### Playback function (SCAN)

You can play back tracks from the data carrier.

To do this, press and hold the **SRC** source selection button for more than one second until the display shows SCAN.

The display will show SCAN message and the current track. SCAN will flash and will go off when the button is pressed again.

## Unplugging USB storage device/microSD card

If needed: open the flip cover by pulling lightly from the bottom by the protruding bottom edge.



Unplug the USB data carrier carefully or gently press on the microSD card (for example, with your fingernail) until it is unlocked (audible click). Ensure you do not let go of the card suddenly, as this can cause it to pop out and get lost. Remove the microSD card carefully from the reader. In case of difficulties, you can use tweezers, for example.

⚠ Tip: never remove the data carrier without first turning the radio off, otherwise the data carrier or the data on it may be damaged.

👉 Tip: if you plug microSD cards or small enough USB flash drives, you can close the flip covers. Never close the flap if the microSD card is not fully inserted or the USB flash drive is too large. When using small USB flash drives or microSD cards, keep in mind that, depending on the shape, they may be difficult to grasp for removal again. In such cases, do not use force or any pointed/sharp objects that could damage the car radio!

# 10. Playback from External Devices and Media: iPod/iPhone

## Apple iPod/iPhone

This car radio has two USB ports compatible with Apple's iPod/iPhone.

- Find the USB port behind the flip cover on the front of the car radio (see "CAR RADIO CONTROLS")
- Find the USB port on the back panel of the car radio (see "INSTALLATION")

## Connecting an iPod/Apple iPhone/Starting playback

Insert the iPod/Apple iPhone connection cable into the USB port carefully, do not force or bend the connector. The radio will automatically switch to the Apple's iPod/iPhone mode.

Playback starts with the last file played on the iPod/iPhone or with media playback from the last application used.

If an Apple iPod/iPhone is already connected, use the **SRC** or the **USB** button to switch to the **IPOD** source to start

playback.

### **Playback from an Apple's iPod/iPhone**

Press << or >> on the multifunction rocker switch to play the previous or next track.

Press and hold << or >> on the multifunction rocker switch to rewind or fast-forward a current track.

Press **▲** or **▼** on the multifunction rocker switch to move up or down one folder.

You can use the station buttons 1-4 to activate/deactivate the special functions: TRACK SEARCH (select/search using the multifunction rocker switch), PLAY/PAUSE, REPEAT (TRACK or DIRECTORY), and RANDOM (ALL or

DIRECTORY).

### **Changing the display**

Use the **DIS** button to toggle between different display content.

☛ **Tip:** The functionality and control via radio may change and not all the features described may be available depending on the Apple device you are using and the media playback applications available on it.

### **Removing an Apple iPod/iPhone device**

Do not remove the data carrier without first turning off the radio, otherwise the device or the data stored on it may be damaged.

## **11. Playback from External Devices and Media: AUX**

### **AUX mode**

The radio is provided with an AUX port:

- Find the AUX port behind the flip cover on the front of the unit (see "CAR RADIO CONTROLS").

Open the flip cover by pulling lightly from the bottom by the protruding bottom edge.

Connect the desired device, such as an external CD player, MP3 player or cassette player, using the appropriate adapters from the accessory range. The car radio will automatically switch to the AUX source when the plug is inserted. Use the

SRC button if you want to change the source or reselect it later.

If necessary, adjust the volume on the external device if the output of it is adjustable.

## 12. Bluetooth® Connection Setup

### Bluetooth®

The Bluetooth® functionality enables wireless pairing of cell phones and media players with your car radio.

To pair a supported device with your car radio, use the functions described in the following sections.

#### Establishing a Bluetooth® connection

Turn the radio on, open the Bluetooth® settings on your Bluetooth® device, search for available devices, and follow the Bluetooth® device's manual to pair them.

After a successful connection is established, the car radio briefly displays "**CONNECTED (VERBUNDEN)**", followed by the name of the connected device, and the small Bluetooth® symbol on the display lights up.

👉 Tip: confirm any messages prompted on your phone

👉 Tip: the AUX connector is automatically activated when the plug is inserted. If the AUX connector is free, the AUX source is not available through the SRC button.

👉 Tip: to prevent damage to the radio, use only plugs and cables that are not defective.

immediately, otherwise some features may be limited, unavailable, or pairing may not work.

👉 Tip: this is required only once, the devices will automatically reconnect one to another when they are in range.

👉 Tip: at the time of its launch, the Bluetooth® functionality was tested extensively with various phones and media players to ensure the highest possible compatibility. However, some features may be limited or not work at all, depending on the device in use. In case of such problems, please check if an update is available for your device or car radio.

👉 Tip: up to 5 Bluetooth® devices can be paired, but they cannot be connected simultaneously. One or two devices can be connected to the device simultaneously after you enable the **TWIN CONNECT**.

Before connecting another Bluetooth® device, disconnect

the already connected device.

### **Bluetooth® Twin Connect**

If the TWIN CONNECT option is enabled, two cell phones can be connected simultaneously. Depending on the operation mode, various enhanced functions are available.

To use them, enable the **TWIN CONNECT** option in the Bluetooth® settings.

### **Bluetooth® Hands-Free System Twin Connect**

In the Bluetooth® settings, use >> to select **PHONE LIST** and the master cell phone, then, select the **ALS MASTER AKTIVIEREN** option there.

The asterisk (\*) symbol will appear next to the Bluetooth® name of the master phone in the phone list.

You will use this phone to access the phonebook and make outgoing calls, and the other connected device only for incoming calls.

### **Bluetooth® audio streaming with Twin Connect**

### **active connection**

In the Bluetooth® settings, select **STREAMING-LISTE** and use >> to select the cell phone to be used for this feature, confirm the **CONNECT (VERBINDEN)** option. If the device has been successfully activated for this function, **CONNECTED (VERBUNDEN)** will appear on the display after a short time. A plus symbol (+) is displayed now next to the Bluetooth® name of the connected streaming device in the phone list.

☛ Tip: if you have two cell phones connected to your car radio, select one of them as the "master" phone. When Twin Connect is enabled, the currently connected cell phone is automatically defined as the master. If none of the cell phones are connected to the car radio, the last connected cell phone will be defined as the master. The asterisk (\*) symbol will appear next to the Bluetooth® name of the master phone in the phone list. The plus symbol (+) appears next to the cell phone connected to the audio streaming feature.



## 13. Bluetooth® Audio Streaming

☛ Tip: the cell phone must be connected to the car radio (see "BLUETOOTH® CONNECTION SETUP")

☛ Tip: the connected Bluetooth® device must support A2DP and AVRCP functions to play music on the car radio and to control playback.

### Bluetooth® playback (audio streaming)

To start playback, switch to the BLUETOOTH® source using the **SRC** or **BT** button.

Press << or >> on the multifunction rocker switch to play the previous or next track.

The PLAY/ PAUSE special function can be activated/deactivated with the station button 2.

☛ Tip: if playback does not start or is started by wrong application on the phone, start/select the appropriate audio player on the connected cell phone you want to

use the streaming broadcast with.

The car radio does not interfere with the selection of applications on the cell phone.

### Changing the display

Depending on the Bluetooth® device or the music playback application used on it, different track content can be displayed using the DIS button.

☛ Tip: it is not possible to stream from this car radio via Bluetooth® to another device (e.g. Bluetooth® speaker boxes, etc.), as this car radio only supports Bluetooth® music signal reception.

☛ Tip: if the TWIN CONNECT feature is active, two cell phones can be connected to the car radio simultaneously. In this case, select/define the device to be used for audio streaming.

See "BLUETOOTH® CONNECTION SETUP"

## 14. Playback of Navigation Messages via Bluetooth®

☛ Tip: the cell phone must be connected to the car radio (see "BLUETOOTH® CONNECTION SETUP")

☛ Tip: if the TWIN CONNECT feature is active, two cell phones can be connected to the car radio simultaneously. In this case, select/define the device to be used for audio streaming.

See "BLUETOOTH® CONNECTION SETUP"

### Bluetooth®-BT Navi Mix Operation

The messages of the navigation application active on the connected cell phone can be played from a current audio source. To use this feature, turn on the **BT NAVI MIX** option. You can then adjust the volume level with the **BT NAVI GAIN (BT NAVI MIX PEGEL)** option (see "SETTINGS"). In addition, you can, if needed, also adjust the volume on the cell phone; refer to the phone manufacturer's manual.

☛ Tip: if the **BT NAVI MIX** option is active, all audio signals from the connected cell phone are mixed with a current audio source; it is not possible to separate or distinguish the navigation messages from other audio signals from the cell phone.

## 15. Bluetooth® Hands-Free System

☛ Tip: the cell phone must be connected to the car radio (see "BLUETOOTH® CONNECTION SETUP")

☛ Tip: to start using the phonebook, load it with the **DOWNLOAD P-BOOK (T-BUCH LADEN)** function.

### Incoming calls

Incoming calls are indicated by a ringing tone and a message on the car radio display.

You can take or reject the call using the phone buttons.

## Outgoing calls

You can make a call in several ways using the BLUETOOTH menu.

### PB SEARCH (TB SUCHE)

Use the multifunction rocker switch to select the initial character, and then, a phonebook entry moved from your cell phone. **PHONEBOOK (TELEFONBUCH)**

Use the multifunction rocker switch to select a phonebook entry moved from your cell phone.

### VOICEDIAL (SPRACHWAHL)

Selecting this function activates the phone's voice assistant to perform a function, such as dialling a phone number.

☛ Tip: for information on the functions and activation of the voice assistant, refer to your cell phone manual.

☛ Tip: voice dialling/recognition is performed/processed by the voice assistant on the connected phone, not by the car radio. **DIAL NEW NUMBER (NEUE NR. WÄHLEN):**

The number to be dialled can be entered using the multifunction rocker switch. Select the desired digit with **▲** or **▼**, and switch between digits using **<<** and **>>**.

Press the ANSWER CALL/DIAL button to dial the number after it has been fully entered.

## Using the phonebook of a connected phone

The **DOWNLOAD P-BOOK (T-BUCH LADEN)** and **DELETE P-**

**BOOK (T-BUCH LÖSCHEN)** options allow you to use the phonebook of a currently connected phone on the car radio.

☛ Tip: to access the phonebook, the phone must be connected.

☛ Tip: if the message **PHONEBOOK FULL (TELEFONBUCH VOLL)** appears, delete the phonebook of the phone that is no longer in use. To do this, connect a relevant phone to the car radio and delete the phonebook with **DELETE P-BOOK (T-BUCH LÖSCHEN)** or clear the phone completely from the car radio with **PHONE LIST (TELEFON-LISTE)**.

☛ Tip: access to the numbers of a connected phone is device-specific and may not be supported, depending on the phone you are using. Note that access to the phonebook must be enabled on the cell phone (depending on the model of the phone).

## Storing a phone number/Dialling a stored number

A manually entered number (see "DIAL NEW NUMBER" above) can be stored by long pressing one of the memory buttons (1-5). After storing the number, you can also enter a name, then long press the corresponding memory button again to save. If saving the name is not completed, only the number will be saved.

Press the ANSWER CALL/DIAL button and then the memory button (1-5) to recall the stored number. The call is then

answered/dialled by pressing the ANSWER CALL/DIAL button.

☛ Tip: the numbers stored will be available on all connected phones.

### Secondary function of the "Answer call" button (soft key)

The "Answer call" button can be assigned in the menu to a desired function to start it without having to call up the Bluetooth menu. The selected function can be activated by long pressing the ANSWER CALL/DIAL button. Possible options include

## 16. Sound Settings

In the **AUDIO (KLANG)** menu, you can set parameters of the sound.

See "SETTINGS" for details on the setting items and their functions.

The car radio provides treble and bass adjustment for each source separately, and a 14-band equalizer for all sources together. The equalizer is additionally adjustable separately for the front and rear channels.

The equalizer is used to adjust the sound of the car radio

**PB SEARCH (TB SUCHE), PHONEBOOK (TELEFONBUCH), VOICEDIAL (SPRACHWAHL) and DIAL NEW NUMBER (NEUE NR. WÄHLEN).**

See "SETTINGS" and "EXTERNAL CONNECTIONS".

### Bluetooth® Twin Connect

Two cell phones can be connected to the car radio at the same time. The cell phone set as MASTER will be used for the phonebook function and outgoing calls. Incoming calls can be answered from either of the connected cell phones. See "BLUETOOTH® CONNECTION SETUP"

for the speakers used in the vehicle as needed, and then make further adjustments, depending on the source, with the treble and bass setting option.

The setting options for treble, bass, balance and fader can be called up directly using the **TREB, BASS, BAL** and **FAD** buttons (see "CAR RADIO CONTROLS") or via the menu (see "SETTINGS").

The equalizer can be called up through the menu (see

"SETTINGS") or directly by pressing and holding the **EQ** button (see "CAR RADIO CONTROLS").

A **SOUND PRESET** can also be used as an alternative to the equalizer.  
This function can be called up through the menu (see

## 17. Clock

The car radio has an internal clock. You can view the time on the display by repeatedly pressing the **DIS** button.

The time can also be displayed when the radio is turned off, see "SETTINGS".

To display the time when the car radio is turned off, the

"SETTINGS") or directly by pressing the **EQ** button (see "CAR RADIO CONTROLS").

▶ Tip: only one audio control option can be used at a time (manual control of the equalizer, sound graph or volume – these source crossover options can then be combined with source-specific bass and treble settings).

vehicle's ignition must be on, whereas if the ignition is turned off, the display goes off completely to reduce power consumption.

To set up the clock, see "SETTINGS".

## 18. Steering Wheel Remote Control (SWC)

With this car radio, you can freely assign the steering wheel remote control buttons (if available) to existing functions in the car radio's SWC configuration.

### Storing functions

In the car radio settings, open the **VARIOUS (VERSCHIEDENES)** -> **SWC** menu. Now, use **▲** or **▼** the multifunction rocker switch to select the function you want to set up, and confirm with the **>>** button.

The car radio will now wait for a signal from the steering wheel remote control, and display **PRESS BUTTON AT STEERING WHEEL FOR 1SEC (TASTE FUER 1 SECOND DRUECKEN)**. Press a desired button on the steering wheel remote control.

If the button has been successfully set up, the display will show **OK**. Repeat the procedure if the unit displays **FAIL (FEHLER)** or does not respond at all. Repeat this step for all buttons to be set up.

☛ Tip: if storing is not possible even after several attempts or is not performed correctly, check the radio connections or the compatibility of the interface used. If **FAIL (FEHLER)** is always displayed, the error is probably in the remote control or in the interface. If the radio does not respond at all, make sure that the remote control/interface is (properly) connected.

☛ Tip: the programmable SWC interface of the radio includes analogue steering wheel presets. The car radio works with analogue remote controls that control functions through different resistance values (resistance matrix) at the connector (up to two control lines and 1x GND).

Some remote controls are directly compatible, others require an SWC interface. The steering wheel remote controls cannot be connected via CAN without an interface.

For more information on the accessories suitable for your vehicle, contact your specialist dealer or the vehicle manufacturer.

## 19. Settings | Menu

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Navigating menus and changing/adjusting settings  
Select the settings by pressing the menu button (see "CAR RADIO CONTROLS").

Use the multifunction rocker switch to navigate through the settings or change a setting as described below.

On the multifunction rocker switch, press the **▲** or **▼** buttons to navigate through the settings.

If you want to select an option or change a setting, select it by pressing the **>>** button on the multifunction rocker switch.

The setting will flash. On the multifunction rocker switch, press the **▲** or **▼** buttons to change the selected option. Then exit the options by pressing the **<<** button on the multifunction rocker switch.

Selecting **<<<** on the display moves up one level, selecting **<<<** on the highest level exits the settings. You can also exit the settings menu by pressing the MENU button again.

The following settings can be entered or customised (the settings are arranged by different categories).

## TUNER (RADIO)

In this submenu, you can set up the radio receiver.

**TRAF:** Enable/disable traffic message prioritisation. This function can also be turned on and off directly with the **TA** button (see "CAR RADIO CONTROLS"). When this function is activated, the radio will switch to the station last heard, and then, return to the previously active source, when it receives a traffic announcement. When the function is active, a small symbol with three vehicles appears on the display. **TRAFFIC (VERKEHR)** appears on the display during a traffic message.

☛ Tip: this feature must be supported by the radio station.

☛ Tip: volume changed during a traffic message is saved for the future traffic messages. To adjust the volume, refer to the **VOLUME (LAUTSTAERKE)** menu option.

☛ Tip: if the reception of a station is interrupted, the radio automatically seeks a new station with traffic information.

Enabling this feature also limits your search to the VHF stations that support this feature.

☛ Tip: the current traffic announcement can be interrupted by pressing the SRC button.

## REG

When this function is on, only stations with the same regional programme are selected if automatic station switching is required due to poor reception.

☛ Tip: the **RDS AF** function must be set to **ON (EIN)**, and the function must be supported by the radio station.

## PTY

When this function is active, the PTY feature is available by pressing the **FR/FF** buttons to search for a specific type of station/music genre.

### PTY TYPES (PTY LISTE)

Active only when PTY is **ON (EIN)**.

Selects the station type/music genre for the PTY function.

### PTY LANG (PTY SPRACHE)

Active only when **PTY** is **ON (EIN)**.

Setting the PTY language.

☛ Tip: this only changes the displayed PTY types, not stations or other settings.



**FM SENS HI/LO (FM EMPF +/-)**

Sets the VHF search sensitivity. **HI (+)** also tunes to stations with weak signal, **LO (-)** tunes only to local stations with strong signal. This function can also be activated and deactivated directly using the **LO** button (see "CAR RADIO CONTROLS").

**FM HICUT OFF, 1, 2, 3 (FM HICUT AUS, 1, 2, 3)**

To improve the sound of weak/distorted VHF station signals (in the case of noises/interference), you can automatically lower the treble range according to the reception strength by activating this function.

**RDS AF**

When this function is active, the radio always switches to the best transmission frequency (alternative frequency). This function can also be turned on and off directly with the **AF** button (see "CAR RADIO CONTROLS").

👉 Tip: this feature must be supported by the radio station.

👉 Tip: if the **AF** sign flashes on the display, the car radio is not receiving AF data because the signal is too weak.

**FM PRESETS (FM  
SPEICHEREBENENSPEICHEREBENEN)**

Turns memory levels or **FM2**, **FMT** sources on/off. If the **SRC** button is inactive, the corresponding memory level cannot be selected with the **SRC** button.

**DAB PRESETS (DAB SPEICHEREBENEN)**

Activates/deactivates memory levels **DAB2**, **DAB3**. If the **SRC** button is inactive, the corresponding memory level cannot be selected with the **SRC** button.

**DAB MODE:**

It is used to specify the basic setting of the multifunction rocker switch in the DAB mode. Options: SERVICE (default setting) or BROWSE. Refer to "DIGITAL RADIO OPERATION".

**DAB SERVICE SCAN (DAB SERVICE DRY)**

Updates the station list to DAB, scans the entire DAB band and removes multiplexes/services that cannot be received from the list. This does not affect memory locations.

**SERVICE LINK:**

When you activate the **DAB/FM/ALL** function, the radio switches, if available, to another DAB channel (if available **DAB** is selected) or also to FM frequencies (if **FM** or **ALL** is selected) to continue playing the station if DAB reception is weak.

**SERVICE NAME**

Switches the **DAB SERVICE/DAB ENSEMBLE** option display to 16 or 8 digits.

**DAB ANTENNA (DAB ANTENNE):**

Enables phantom power supply for active DAB antennas. If the DAB antenna is active, set 12 V to **ON (AN)**.

**AREA (REGION):**

Sets the receiving region where the radio is used.

**AUDIO (KLANG)**

In this submenu, you can adjust the sound source by source.

➡ Tip: the 14-band equalizer works for all sources simultaneously and can be adjusted separately for front and rear channels.

The equalizer allows you to customise the sound of your

car radio to your speakers, and then you can adjust the sound separately for each sound source using the **BASS (TIEFEN)** and **TREBLE (HOEHEN)** settings if necessary.

➡ Tip: the range of tone control is subject to certain limitations, which are technically determined and are intended to avoid extreme settings possibly resulting in distortion and interference. For example, you cannot increase a single frequency setting by 12 dB with the equalizer and by another 12 dB by adjusting the LOW or HIGH settings – this leads to a very unnatural sound and, possibly, to distortion and clipping.

➡ Tip: only one tone control option can be used at a time (manual equalizer setting, sound graph or volume – these options for different sound sources can then be combined with the **BASS (TIEFEN)** and **TREBLE (HOEHEN)** settings for that source).

**BASS (TIEFEN)**

Boosts or reduces low frequency range.

➡ Tip: this setting can be adjusted individually for each audio source.

**TREBLE (HOEHEN)**

Amplifies or reduces high frequency range.

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☛ Tip: this setting can be adjusted individually for each audio source.

## **BAL**

Adjusts the left/right balance of the audio signal.

## **FADER**

Adjusts the audio signal of the front/rear speakers.

## **EQUALIZER**

Activates the **SOUND PRESET** option or the **EQUALIZER** function.

### **SOUND PRESET**

Turns on the **POP, ROCK, CLASSIC** preset sounds. This function can also be activated directly with the **EQ** button (see "CAR RADIO CONTROLS").

☛ Tip: when the sound graph is on, the manual **EQUALIZER** setting has no function and is disabled. **EQUALIZER**

Activates and adjusts the 14-band equalizer. This function can also be activated directly by pressing and holding the **EQ** button (see "CAR RADIO CONTROLS").

Activate the equalizer with the **ON (AN)** option to enable the adjustment of the following frequencies from -12 to +12 dB for **FRONT (VORNE)** and **REAR (HINTEN)**:

32 Hz, 50 Hz, 90 Hz, 125 Hz, 150 Hz, 250 Hz, 550

Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 10 kHz, 12 kHz and 16 kHz.

In addition, in the **Q-FACTOR** item, you can adjust the filter quality/drop of 1.00, 1.41 and 2.00 (a lower value means better filter quality/bigger drop).

☛ Tip: when the equalizer is on, the **SOUND PRESET** setting has no function and is disabled.

### **HPF** (High Pass Filter)

The split frequency (50, 63, 80, 100, 125, 160 or 200 Hz) and filter slope 6 or 12 dB can be set separately for the **FRONT (VORNE)** front speaker channels and/or **REAR (HINTEN)** rear speaker channels to cut low frequencies, e.g. if an additional subwoofer or other channels are used at the subwoofer output, or if the connected speakers cannot sufficiently reproduce the lower frequency spectrum.

### **LPF** (Low Pass Filter)

The split frequency (50, 63, 80, 100, 125, 160 or 200 Hz) and filter slope (6 or 12 dB) can be set separately for the **FRONT (VORNE)** front speaker channels and/or **REAR (HINTEN)** rear speaker channels to cut high frequencies, for example, if only a subwoofer is connected to the respective outputs (or to the respective preamplifier or speaker outputs).

**LOUD**

Loudness On/Off (bass enhance).

**SUB-OUT**

Adjusts the output level (**GAIN**), split frequency (**FREQ**) and filter slope (**SLOPE**) of the subwoofer output.

**AMP**

Delays the switching output activation within the range of 0-2.5 seconds to avoid interference when switching on external amplifiers.

**DISPLAY (ANZEIGE)**

In this submenu, you can make settings for the display.

**DIM MAN/ AUTO**

Toggleing between the display brightness settings manually/automatically.

**AUTO:** the **ILLUMINATION** input (see "INSTALLATION/CONNECTIONS") automatically toggles the display brightness between the preset **DAY (TAG)** and **NIGHT (NACHT)** values, depending on the lighting in the vehicle.

**MAN:** press and hold the **DIS** button for 2 seconds to toggle between preset **DAY (TAG)** and **NIGHT (NACHT)** values.

**DAY (TAG)**

Sets the brightness of the display for the day.

**NIGHT (NACHT)**

Sets the display brightness for the night.

**SCROLL**

Scrolls the displayed content if it is too long to be displayed at a time. Options: scrolling through new information once (1X) or always (**ON (AN)**).

**MODE**

Display setting. The second line can continuously display the **CLOCK (UHR)** time or also a selected **SOURCE (QUELLE)**.

**STBY-LED**

Options for the red LED marked STBY on the front of the car radio.

**FLASH:** when the car radio is turned off, the LED flashes approx. every 15 seconds if this option is active.

**TIMER:** if the hour logic is active (ignition plus is turned off, the car radio plays for an hour and then turns off automatically), the LED lights up when this option is active.

**LANGUAGE (SPRACHE)**

Selects the menu language. Available languages:

## DEUTSCH, ENGLISH.

### COLOR (FARBE)

Setting options **R** (red), **G** (green), **B** (blue): create your desired colour by changing the brightness values of each colour (possible 16x 16x 16 colours, each colour intensity can be changed by 16 increments).

### VOLUME (LAUTSTAERKE)

In this submenu, you can adjust volume settings for the car radio.

#### ON VOLUME (AN LAUTST)

Select your desired option to restart the car radio with the value last used **LAST VOL (LETZTE LAUTSTÄRKE)** or with the value set **AN VOL (ONVOL)**.

☛ Tip: the starting volume is always limited to max. 30.

#### TA VOL

Sets the volume of traffic announcements. If the volume of the active traffic announcement is adjusted, this setting will be updated or overwritten.

#### HF VOL

Sets the volume of the hands-free system.

If the volume is adjusted during a phone call, this setting will be updated or overwritten.

### BEEP

Sets the audible feedback (beep) when a key is pressed.

☛ Tip: saving a station is always confirmed by a beeping sound, even when the **BEEP** function is set to **OFF (AUS)**.

### CLOCK (UHR)

In this submenu, you can adjust settings for the clock. See also "CLOCK".

#### CLOCK (UHR)

Enables/disables the time display when the unit is turned off. When the car radio is off and the ignition is on, a clock appears on the display when set to **ON (AN)**.

#### MODUS

Toggles between the **12/24** hour display.

#### SET 00:00

Manual time setting. Set minutes by pressing the switch up, set hours by pressing the switch down.

☛ Tip: if **RDSCLOCK (RDSUHR)** is active, the time

set manually is overwritten.

### **RDSCLOCK (RDS UHR)**

Activates automatic time settings using the radio data signal.

## **VARIOUS (DIVERSES)**

You can adjust various settings in this menu.

### **DEMO**

Enables/disables demo function/sales mode (if no button is pressed for a certain period of time, the message with radio functions appears and the display colour changes continuously).

### **SCAN**

Sets the playback function time (**4/8/12/16/60** seconds).

### **SWC**

Stores the steering wheel remote control (see "STEERING WHEEL REMOTE CONTROL (SWC)").

### **VERSION**

Requests car radio software version.

### **NORMSET**

Restores the car radio to factory settings. Select confirm to restore factory settings for the car radio.

### **BLUETOOTH®**

In this submenu, you can adjust settings for the Bluetooth® function. See also "BLUETOOTH® HANDS-FREE SYSTEM".

### **PB SEARCH (TB SUCHE)**

Searching for a name in the phonebook.

### **PHONEBOOK (TELEFONBUCH)**

Calling up a phonebook transferred from a cell phone.

### **TWINCONNECT**

Activates the option to connect two Bluetooth® devices simultaneously.

### **PHONE LIST (TELEFON-LISTE)**

Available phones/phones paired with the car radio with options to be removed/disconnected/set as the master phone.

### **STREAMING LIST (STREAMING-LISTE)**

A2DP-enabled mobile devices available/paired with the car radio with option to be removed/disconnected/selected as an active

A2DP device.

### **SOFTKEY**

Configures the secondary function of the "Answer Call" button. Available options include

#### **PB SEARCH (TB SUCHE)**

#### **PHONEBOOK (TELEFONBUCH)**

#### **VOICEDIAL (SPRACHWAHL)**

#### **DIAL NEW NUMBER (NEUE NR. WÄHLEN)**

### **BT NAVI MIX**

Activates the **BT NAVI MIX** function.

### **BT NAVI MIX GAIN (BT NAVI MIX PEGEL)**

Available only if **BT NAVI MIX** is activated. Sets the volume of the mixed signal from the phone.

### **DELETE P-BOOK (T-BUCH LÖSCHEN)**

Deletes the phonebook of a phone currently connected to the car radio.

### **DOWNLOAD P-BOOK (T-BUCH LADEN)**

Loads the phonebook from a currently connected cell phone.

### **VOICE DIAL (SPRACHWAHL)**

Performs voice dialling of a phone number.

### **DIAL NEW (NEUE NR WAEHLEN)**

Entering the phone number to be dialled manually

## 20. Installation | Disassembly | Connections

### **Installation guide**



Install the unit only if you have experience installing car radios and are familiar with the vehicle's electrical system. Pay attention to the information given at the connections of the car radio. Connect the car radio using

appropriate adapters; ensure that all wires transfer the correct signals or voltages. The plugs in the vehicle must not be connected directly to the car radio.

The installation of the car radio must not interfere with or prevent the activation of airbags and other safety devices and/or controls. Before installing the car radio, disconnect

the vehicle battery (negative terminal, ground), otherwise malfunctions or even damage to the car radio or vehicle's electronics may occur.

Observe the vehicle manufacturer's safety instructions (airbag, alarm system, on-board computer, immobiliser, etc.). Depending on the vehicle in which the car radio is to be installed, optional and specific connection adapters and/or mounting accessories such as mounting frames, covers, etc. are required.

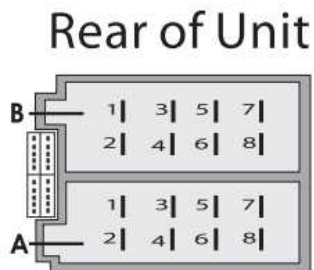
Installation errors can result in damage to the car radio or vehicle's electronics.

The housing of the car radio gets hot during

operation. Make sure no cables are in contact or pressed with the housing.

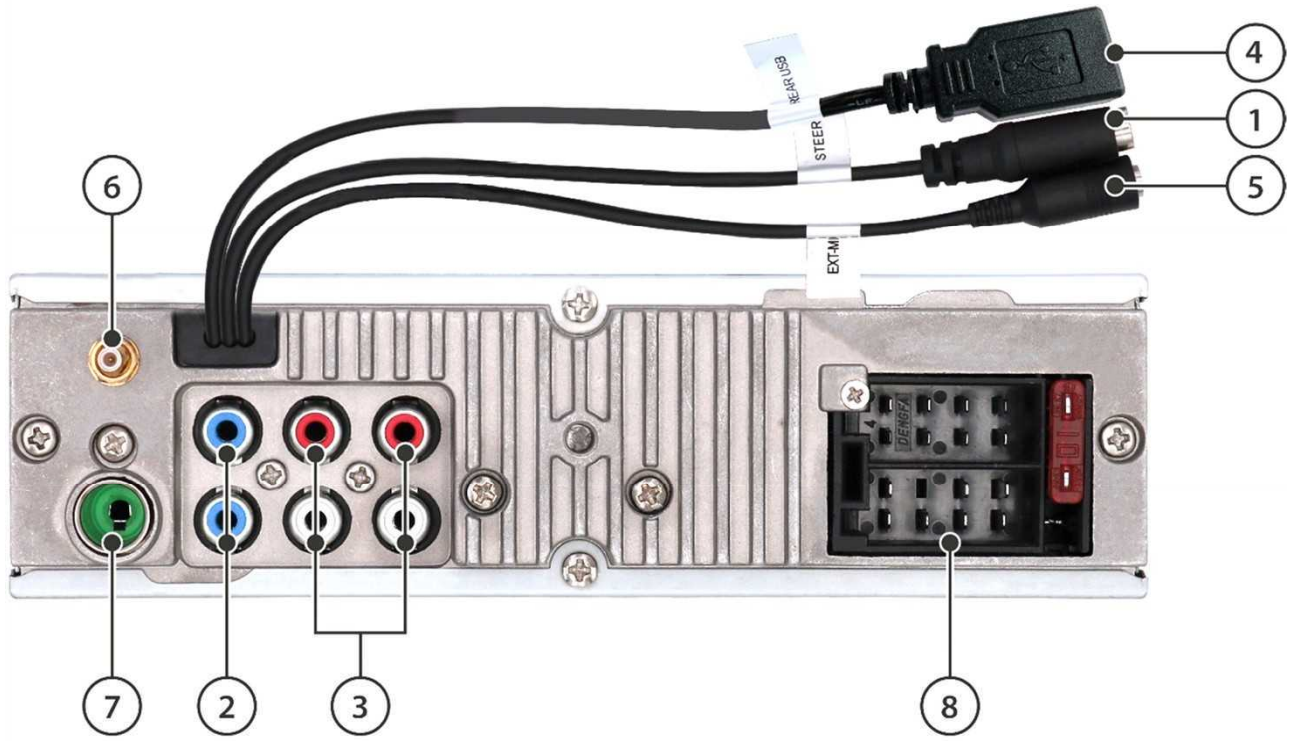
If you need help installing the radio, consult a car Hi-Fi specialist.

To remove the radio, loosen the side covers (see "CAR RADIO CONTROLS") by lifting them from the side with a fingernail. Insert the release handles (accessories included) into the holes until they snap into place. Now, carefully remove the car radio from the socket. Make sure no wires are damaged.



A		B	
1	NC	1	Speaker RR+
2	Radio Mute	2	Speaker RR-
3	NC	3	Speaker RF+
4	Perm.+12V(KL30)	4	Speaker RF-
5	Auto Antenna*	5	Speaker LF+
6	Illumination	6	Speaker LF-
7	Ignition(KL15)	7	Speaker LR+
8	GND(KL31)	8	Speaker LR-





## Connection Names and Designations

- ① SWC: a connection to the steering wheel remote control – external adapter/interface may be required, see "STEERING WHEEL REMOTE CONTROL (SWC)"
- ② SUB/SW: a subwoofer output for connecting an active subwoofer
- ③ PREAMP- OUT (RF, LF, RR, LR): preamp outputs for connecting an external amplifier
- ④ USB: a rear USB port (REAR USB)
- ⑤ EXT-MIC: a connection for an external microphone; switched automatically when microphone is connected
- ⑥ DAB antenna: an SMB connector with 12 V phantom power (max. 150 mA, switchable in the menu, see "SETTINGS")
- ⑦ FM/AM Antenna: a DIN connection
- ⑧ Terminal block with section A (power supply), section B (speaker) and radio fuse (10 A flat car fuse, red)

MUTE: mutes the car radio by contacting ground

BATT (cl. 30): the battery

ANTENNA/SWITCHING OUTPUT (REMOTE): a switchable power supply for active antennas or control voltage for external power amplifiers/subwoofers (12 V, max. 150 mA)

DIMMER/LIGHTING (cl. 58): the vehicle lighting input, required for automatic button/display brightness switching. The input requires 0 V/12 V. PWM signals may cause the display to flicker and must not be used.

ACC/IGNITION PLUS (Cl. 15): switches the ignition plus from the ignition lock

GND/GROUND (cl. 31): Ground

➡ Tip: the car radio does not support CD changers, interfaces or other components compatible with older Blaupunkt car radios.

➡ Tip: ensure you connect the ignition and fixed positive pole correctly, otherwise the car radio will consume increased current and will not shut down completely, which can discharge the car battery!

## 21. Useful Information | Technical Data

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### Warranty

For current warranty terms and conditions, please visit [www.blaupunkt.com](http://www.blaupunkt.com). If no additional information is provided there, local regulations apply.

### Servicing

Contact the Blaupunkt dealer from whom you purchased the product if you need repair service. For more information on service partners in your country, please visit [www.blaupunkt.com](http://www.blaupunkt.com) Information on service partners in your country.

### Technical data

Supply voltage	
Remote control:	3 V, CR2025
Operating voltage:	10.5–14.4 V
Power consumption	
Working mode:	<10 A
Off state (cl. 15/ACC off):	< 5 mA
Speaker impedance:	> 4 Ohms/channel
Antenna/amplifier switching output 12 V:	max. 150 mA
DAB 12 V antenna:	max. 150 mA
USB connector 5 V:	max. 1 A
AUX 3.5 mm stereo jack connector	
SWC 3.5 mm stereo jack connector	0-3.3 V

➡ Tip: ensure you connect the ignition and fixed positive pole correctly, otherwise the car radio will consume increased current and will not shut down completely, which can discharge the car battery!

## 22. Troubleshooting

Malfunctions and possible remedies are listed below.

If you continue to have problems with the car radio, please contact your dealer or Blaupunkt Service.

In the event of problems, have the installation inspected or completed by a professional.

Most problems occur due to incorrect connection and operation.

- ***When installed, the airbag indicator lights on the dashboard come on/speedometer stops working etc.***

The car radio has probably been incorrectly connected. Immediately disconnect the vehicle battery and remove the radio. Have the installation performed/checked by a professional.

- ***The car radio displays 1 HOUR (1 STUNDE) when turned on and turns off after one hour***

The ignition positive pole is not connected or is not activated. Check the connections.

- ***At a higher volume, the display/car radio flickers or the sound turns off***

Check the cross section of the power supply wire. Do not go below an impedance of 4 Ohms/channel. Have the installation performed/checked by a professional.

- ***The remote control does not work***

Check if the battery is properly seated, remove the small plastic wrap, point the remote control at the car radio to keep the line of sight.

- ***The car radio does not turn on/does not respond to ignition/ always turns off automatically after a certain period of time/ cannot be turned on without ignition***

Is the ignition/fix positive pole connected properly? The ignition positive pole must switch properly between 0 V/12 V, there must be no residual voltage on the ignition positive in the "ignition off" state.

Check the car radio for correct connection, under no circumstances should you connect the car plugs directly to the car radio without first checking the PIN-to-PIN assignment.

Have the installation performed/checked by a professional.

- ***Settings and/or preset stations are lost, the time is not displayed properly***

As a rule, the car radio saves the settings permanently, even without power supply. However, some settings are not permanently saved until properly turned off, so make sure you properly turn off your car radio.

The functions such as the time, last source, last USB/CD playback position require constant power supply. For proper operation, the car radio must be properly connected to a permanent power source which must not be interrupted.

In addition, some radio stations may transmit incorrect time signal via RDS. If this is the case, disable the RDS function responsible for the time in the menu, and set the clock manually.

- ***The car radio does not receive a radio signal or the signal is weak***

Check the antenna for your reception range.

Check if a phantom power supply adapter may be needed.

Is the antenna installed correctly? Many antennas require a counterpole (car body).

LED lights or other electrical components may interfere with radio reception, so such interference should be excluded.

When using the car radio for the first time, make sure the radio is set to the correct radio region (see "SETTINGS").

- ***NO SIGNAL or NO SERVICE is suddenly displayed in the DAB mode***

The current MULTIPLEX (program package) signal is too weak and audio signal decoding is not possible. Select another MULTIPLEX or check the DAB antenna. ***The radio suddenly displays SEEK PI (SUCHE PI)/ SEEK TA (SUCHE TA) or changes stations during operation***

Check your antenna and car radio settings. If necessary, deactivate the alternative frequency function (see "SETTINGS").

If the communication radio function has been enabled, poor reception may cause the radio to change stations itself, disable the communication radio function or select another station.

- ***The car radio displays station name in the radio mode incorrectly***

Adjust the display as required with the DIS button. Check reception (check the antenna).

Note: some stations send additional information instead of the RDS station name; this is not affected by the radio.

- ***USB, CD, SD or other storage media do not work***

Check other storage media for correct functioning, format storage media, and play different files.

- **Bluetooth® problems (phonebook is not displayed, the phone does not connect, the caller cannot be heard)**

Check for software updates for your cell phone and/or car radio.

Clear the car radio from the the cell phone list, and then re-establish the connection.

Confirm all authorisation requests on the cell phone with YES or check them manually in case of a connected car radio.

Use another cell phone to cross-check.

- **The caller does not hear me**

Check the external microphone for correct connection.

Check the microphone setting in the Bluetooth® settings (if available).

Use another cell phone to cross-check.

- **SUB-OUT or its setting options on the car radio**

**do not work** Make sure the subwoofer is properly connected to the SUB-Out output of the car radio, otherwise the options in the sound settings do not have any effect.

- **The issue/malfunction is not specified in this case. A car radio function does not work as expected/The car radio does not behave as expected**

Reset the device to factory defaults in **MENU** ->

#### **VARIOUS -> NORMSET.**

Verify that the software is up to date. Current software updates are available on our website or can be ordered through our service.

Note: a detailed description of the malfunction and the current car radio software version is required when contacting the service.



DE, EN, DA, NL, FR, ES, PT, IT, PL, CS

Blaupunkt FRANKFURT RCM 82 DAB

Technische Änderungen, Irrtümer und Druckfehler vorbehalten.



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