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Navi 600

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Introduction

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General information

The Infotainment system provides you with state-of-the-art in-car infotainment.

For the AM, FM and DAB wavebands the radio is equipped with twelve automatically assignable channel presets. Furthermore, 36 channels can be allocated manually (waveband-independent).

The integrated audio player will entertain you with audio CDs and MP3/WMA CDs.

Furthermore, you can connect external data storage devices, e.g. iPod, MP3 player or USB stick, or a portable CD player to the Infotainment system as further audio sources.

The digital sound processor provides you with several preset equalizer modes for sound optimisation.

The navigation system with dynamic route planning will reliably guide you to your destination, and, if desired, will automatically avoid traffic jams or other traffic problems.

Optionally, the Infotainment system can be operated using controls on the steering wheel or via the speech recognition system (if available).

In addition the Infotainment system can be equipped with a mobile phone portal.

The well-thought-out design of the control elements, the clear displays and a large multifunction knob enable you to control the system easily and intuitively.

Important information on operation and traffic safety

Warning

The Infotainment system has to be used so that the vehicle can be driven safely at all times. If in doubt stop your vehicle and operate the Infotainment system while the vehicle is stationary.

Warning

The usage of the navigation system does not release the driver from the responsibility for a correct, vigilant attitude in road traffic. The related traffic regulations must always be followed.

Only make entries (e.g. addresses) with the vehicle stationary.

If a navigation instruction contradicts traffic regulations, the traffic regulations always apply.

Warning

In some areas one-way streets and other roads and entrances (e.g. pedestrian zones) that you are not allowed to turn into are not marked on the map. In such areas the Infotainment system may issue a warning that must be accepted. Here you must pay

particular attention to one-way streets, roads and entrances that you are not allowed to drive into.

Radio reception

Radio reception may be disrupted by static, noise, distortion or loss of reception due to

- changes in distance from the transmitter,
- multi-path reception due to reflection,
- shadowing.

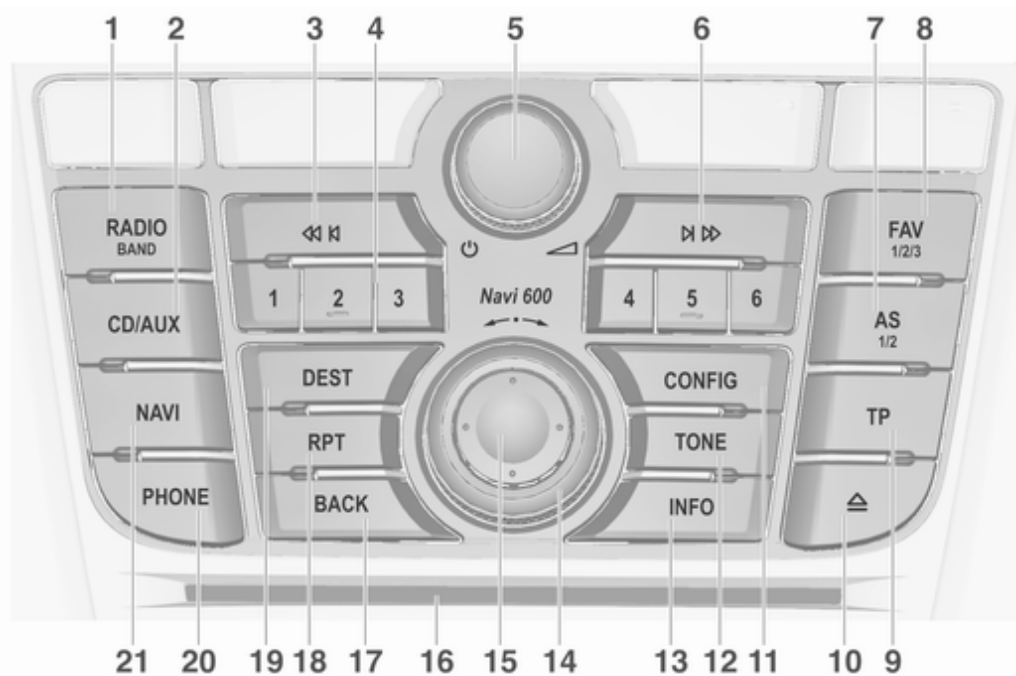
Theft-deterrent feature

The Infotainment system is equipped with an electronic security system for the purpose of theft deterrent.

The Infotainment system therefore functions only in your vehicle and is worthless to a thief.

Control elements overview

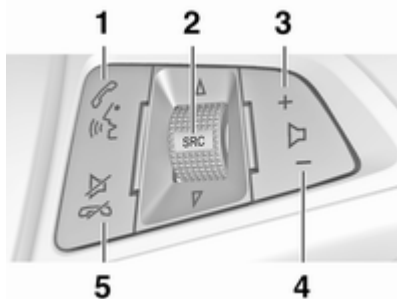
Navi 600



1	RADIO (BAND) 15	6	Search forwards 15	13	INFO 6
	Activate radio or change waveband 15		Radio: search forwards 15		Radio: information on the currently played station 15
2	CD/AUX 27		CD/MP3/WMA: skip track forwards 25		CD/MP3/WMA: information on the currently inserted CD 25
	Start CD/MP3/WMA replay or change audio source 27	7	AS (1/2) 16		Digital picture frame: shows currently selected picture/photo 31
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	Radio: search backwards 15		Short press: select autostore list 16	14	Multifunction knob 10
	CD/MP3/WMA: skip track backwards 25		Long press: save stations automatically 16		Turn: mark menu options or set numeric values 10
4	Radio station buttons 1...6 16	8	FAV (1/2/3) 16		Press (the outer ring): select/activate the marked option; confirm set value; switch function on/off 10
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Steering wheel audio controls



- 1 Short press: take phone call . 77
or dial number in call list 84
or activate speech
recognition (if available) 72
Long press: show call list 84
or deactivate speech
recognition (if available) 72
- 2 SRC (Source) 9
Press: select audio source 9

If radio is active: turn
upwards/downwards to
select next/previous
preset radio station 15

If CD player is active: turn
upwards/downwards to
select next/previous CD/
MP3/WMA track 25

If Phone portal is active:
turn upwards/downwards
to select next/previous
entry in call list 84

If Phone portal is active
and calls waiting: turn
upwards/downwards to
switch between calls 84

- 3 Increase volume 9
- 4 Reduce volume 9
- 5 Short press: end/decline
call 84
or close call list 84
or activate/deactivate mute 9
or deactivate speech
recognition (if available) 72

Usage


Control elements

The Infotainment system is operated via function buttons, multifunctional knobs and menus that are shown on the display.


Inputs are made optionally via:

- the central control unit in the instrument panel ↪ 6
- controls on the steering wheel ↪ 6
- the speech recognition system (if available) ↪ 72


Switching the Infotainment system on or off

Press the  knob briefly. After switching on, the last selected Infotainment source is active.

Automatic switch-off

If the Infotainment system has been switched on using the  knob when the ignition was switched off, it will switch off again automatically after 30 minutes.

Setting the volume

Turn the  knob. The current setting is shown on the display.

When the Infotainment system is switched on, the last selected volume is set, provided that volume is lower than the maximum start-up volume.

The following can be set separately:


- the maximum start-up volume ↪ 14
- the volume of the traffic announcements ↪ 14
- the volume of the navigation messages ↪ 35

Speed compensated volume

When speed compensated volume is activated ↪ 14 the volume is adapted automatically to compensate for the road and wind noise as you drive.

Mute

Press the **PHONE** button (if Phone portal available: press for a few seconds) to mute the audio sources.

To cancel mute again: turn the  knob or press the **PHONE** button again (if Phone portal available: press for a few seconds).

Volume limitation at high temperatures

At very high temperatures inside the vehicle the Infotainment system limits the maximum adjustable volume. If necessary the volume is decreased automatically.

Modes of operation

Radio

Press the **RADIO** button to open the radio main menu or to change between the different wavebands.

Press the multifunction knob to open a submenu with options for station selection.

Detailed description of the radio functions ↪ 15.

Audio players

Press the **CD/AUX** button to open the CD, USB, iPod or AUX menus (if available) or to swap between these menus.

Press the multifunction knob to open a submenu with options for track selection.

Detailed description of:

- CD player functions ⇨ 25
- AUX input functions ⇨ 27
- USB port functions ⇨ 28

Navigation

Press the **NAVI** button and then the multifunction knob to open the Navigation menu.

Detailed description of the navigation system functions ⇨ 35.

Phone

(if Phone portal is available)

Press the **PHONE** button to open the telephone menu.

Press the multifunction knob to open a submenu with options for the input or selection of numbers.

Detailed description of the mobile phone portal functions ⇨ 77.

Basic operation

Multifunction knob

The multifunction knob is the central control element for the menus.

Turn the multifunction knob:

- to mark a menu option
- to set a numeric value

Press the outer ring of the multifunction knob:

- to select or activate the marked option
- to confirm a set value
- to switch a system function on/off

BACK button

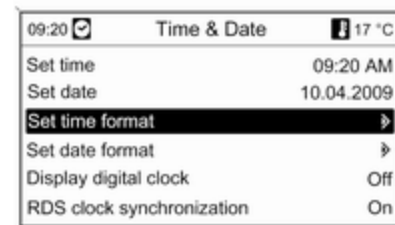
Press the **BACK** button briefly to:

- exit a menu
- return from a submenu to the next higher menu level
- delete the last character in a character sequence

Press and hold the **BACK** button for a few seconds to delete the entire entry.

Examples of menu operation

Selecting an option



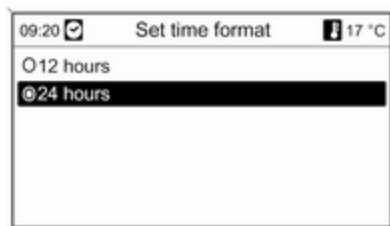
Turn the multifunction knob to move the cursor (= coloured background) to the desired option.

Press the multifunction knob to select the marked option.

Submenus

An arrow on the right-hand edge of the menu indicates that after selection of the option a submenu with further options will be opened.

Activating a setting



Turn the multifunction knob to mark the desired setting.

Press the multifunction knob to activate the setting.

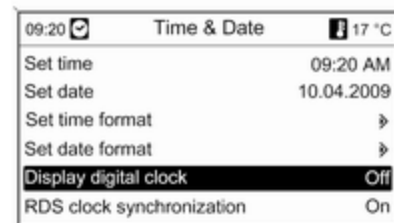
Setting a value



Turn the multifunction knob to change the current value of the setting.

Press the multifunction knob to confirm the set value.

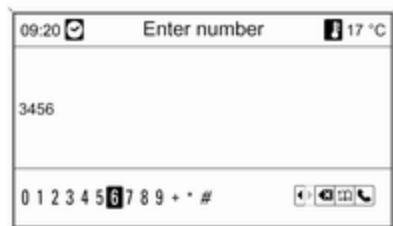
Switching a function on or off



Turn the multifunction knob to mark the function to be switched on or off.

Press the multifunction knob to switch between the settings **On** and **Off**.

Entering a character sequence



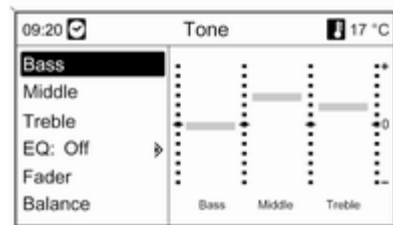
To enter character sequences, e.g. telephone numbers or road names:
Turn the multifunction knob to select the desired character.

The last character in the character sequence can be deleted using the **BACK** button. Pressing and holding the **BACK** button deletes the entire entry.

Press the multifunction knob to confirm the selected character.

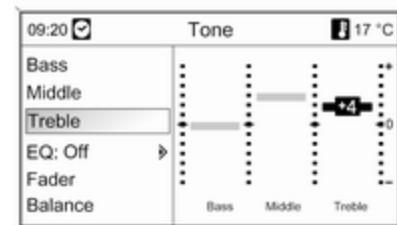
Tone settings

In the tone settings menu the tone characteristic can be set differently for each radio waveband and each audio player source.



Press the **TONE** button to open the tone menu.

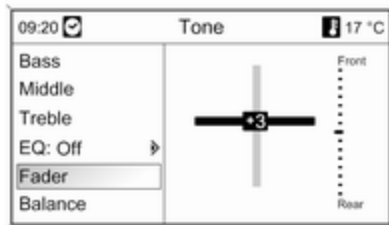
Setting bass, middle and treble



Select **Bass**, **Middle** or **Treble**.

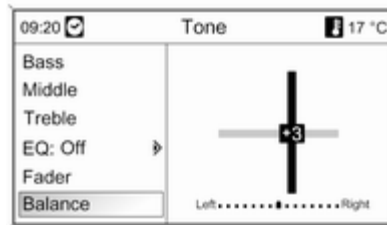
Set the desired value for the option selected.

Setting the volume distribution between front - rear



Select **Fader**.
Set the desired value.

Setting the volume distribution between right - left



Select **Balance**.
Set the desired value.

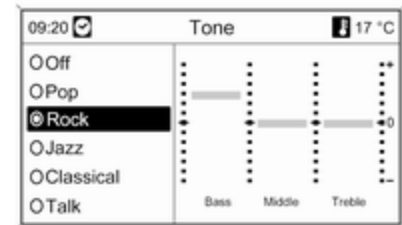
Setting an individual setting to "0" or "Off"

Select the desired option and press and hold the multifunction knob for a few seconds.

Setting all settings to "0" or "Off"

Press and hold the **TONE** button for a few seconds.

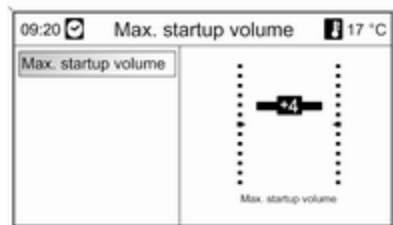
Optimising the tone for the style of music



Select **EQ** (Equalizer).
The displayed options offer optimised bass, middle and treble presets for the relevant style of music.
Select the required option.

Volume settings

Maximum startup volume

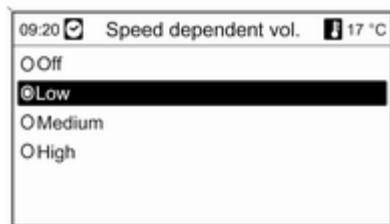


Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Maximum startup volume**.

Set the desired value.

Speed dependent volume



Press the **CONFIG** button to open the system settings menu.

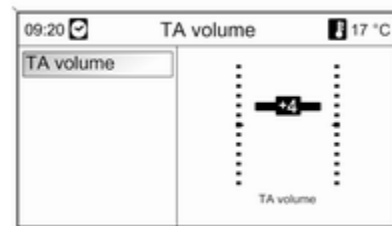
Select **Radio settings** and then **Speed dependent volume**.

Speed dependent volume can be deactivated or the degree of volume adaptation can be selected in the menu displayed.

Select the required option.

Volume of the traffic announcements (TA)

The volume of the traffic announcements can be increased or reduced proportionate to the normal audio volume.



Press the **CONFIG** button to open the system settings menu.

Select **Radio settings**, **RDS options** and **TA volume**.

Set the desired value.

Radio

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Usage

Control buttons

The most important buttons for control of the radio are as follows:

- **RADIO**: Activate radio
- **◀ ▶**: Station search
- **AS**: Autostore lists
- **FAV**: Favourite lists
- **1...6**: Preset buttons
- **TP**: Radio traffic service ⇨ 20

Activating the radio

Press the **RADIO** button to open the radio main menu.

The station last played will be received.

Selecting the waveband

Press the **RADIO** button once or several times to select the desired waveband.

The station last played in that waveband will be received.

Station search

Automatic station search

Briefly press the button **◀ ▶** or **▶ ▶** to play the previous/next station in the station memory.

Manual station search

Press and hold **◀ ▶** or **▶ ▶** button. Release button when the required frequency has almost been reached on the frequency display.

A search is made for the next station that can be received and it is played automatically.

Manual station tuning

FM waveband

Press the multifunction knob to open the FM menu and select **Manual tuning FM**.

Turn the multifunction knob and set the optimal reception frequency on the pop-up frequency display.

AM waveband

Turn the multifunction knob and set the optimal reception frequency on the pop-up frequency display.

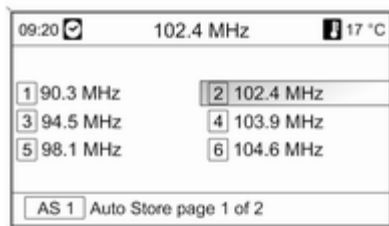
DAB waveband

Press the multifunction knob to open the DAB menu and select **DAB manual tuning**.

Turn the multifunction knob and set the required reception frequency on the pop-up frequency display.

Autostore lists

The stations that can be received best in a waveband can be searched for and stored automatically via the autostore function.



Notice

The currently received station is highlighted.

Each waveband has 2 autostore lists (**AS 1**, **AS 2**), in each of which 6 stations can be stored.

Automatic station storing

Press and hold the **AS** button until an autostore message is displayed. The 12 strongest stations in the current waveband will be stored in the 2 autostore lists.

To abort the autostore procedure, press the multifunction knob.

Storing stations manually

Stations can also be stored manually in the autostore lists.

Set the station to be stored.

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

Notice

Manually stored stations are overwritten in an automatic station storing process.

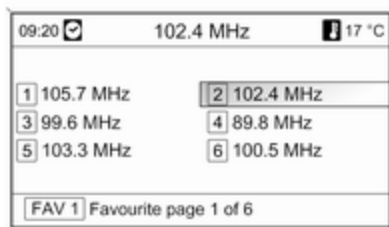
Retrieving a station

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

Briefly press one of the station buttons 1...6 to open the station at the corresponding list position.

Favourite lists

Stations of all wavebands can be stored manually in the favourite lists.



6 stations can be stored in each favourite list. The number of available favourite lists can be set (see below).

Notice

The currently received station is highlighted.

Storing a station

Set the station to be stored.

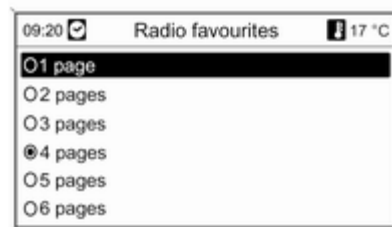
Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

Retrieving a station

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list. Briefly press one of the station buttons 1...6 to open the station at the related list position.

Defining the number of available favourite lists



Press **CONFIG** button.

Select **Radio settings** and then **Radio favourites**.

Select the desired number of available favourite lists.

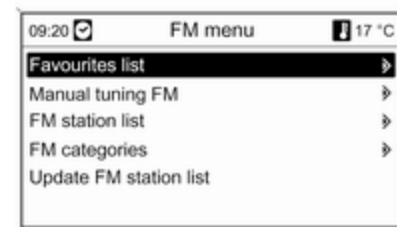
Waveband menu

Alternative facilities for station selection are available via waveband-specific menus.

With the radio main menu active, press the multifunction knob to open the relevant waveband menu.

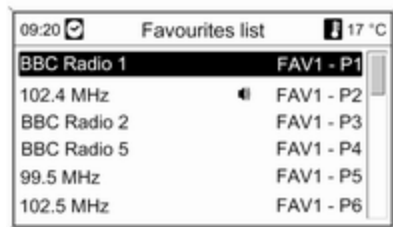
Notice

The following FM specific displays are shown as examples.



Favourites list

Select **Favourites list**. All stations saved in the favourites lists are displayed.



Select the required station.

Notice

The currently received station is marked by 📶.

Manual tuning

Description see "Manual station tuning" above.

Station lists

AM/FM waveband

Select **AM station list** or **FM station list**.

All receivable AM/FM stations in the current reception area are displayed.

DAB waveband

Turn the multifunction knob.

All receivable DAB stations ⇨ 22 in the current reception area are displayed.

Notice

If no station list has been created beforehand, the Infotainment system performs an automatic station search.



Select the required station.

Notice

The currently received station is marked by 📶.

Updating station lists

If the stations stored in a waveband-specific station list can no longer be received:

Select the corresponding command to update a station list.

A station search is started. Once the search is finished, the station previously selected is played.

To cancel the station search: press multifunction knob.

Notice

If a waveband specific station list is updated the corresponding category list (if available) is also updated.

Important information on updating the station lists

The dual tuner in the Infotainment system continuously updates the station lists in the background. This ensures that, e.g., the station lists always contain the stations that can be received in the local area during a long motorway journey. As the automatic updating takes a certain amount of time, not all stations that can be received may be available at

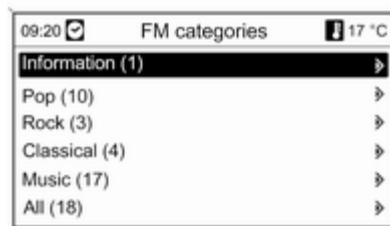
once in the station list at a sudden change in reception area. In such circumstances the updating of the station lists can be accelerated using the corresponding command for updating a station list.

Category lists

Numerous RDS stations ⇨ 20 broadcast a PTY code, which specifies the type of programme transmitted (e.g. news). Some stations also change the PTY code depending on the content currently being transmitted.

The Infotainment system stores these stations, sorted by programme type, in the corresponding category list.

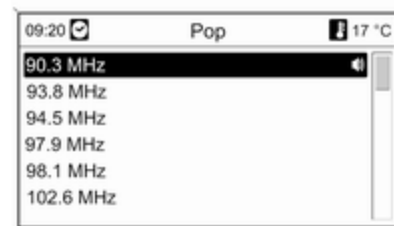
To search for a programme type determined by station: select the waveband-specific category list option.



A list of programme types available at the moment is displayed.

Select desired programme type.


A list of stations is displayed that transmit a programme of the selected type.



Select the required station.

The category list is also updated when the corresponding waveband specific station list is updated.

Notice

The currently received station is marked by .

DAB announcements

Besides their music programmes, numerous DAB stations ⇨ 22 broadcast various announcement categories.

The currently received DAB service (programme) is interrupted when any announcements of previously activated categories are pending.

Activating announcement categories

Select **DAB announcements** in the DAB menu.



Activate the desired announcement categories.

Several announcement categories can be selected at the same time.

Notice

DAB announcements can only be received if the DAB waveband is activated.

Radio data system (RDS)

RDS is a service of FM stations that considerably facilitates the finding of the desired station and its fault-free reception.

Advantages of RDS

- On the display, the programme name of the set station appears instead of its frequency.
- On station search, the Infotainment system tunes in to RDS stations only.
- The Infotainment system always tunes into the best receivable broadcasting frequency of the set station by means of AF (Alternative Frequency).
- Depending on the station that is received, the Infotainment system displays radio text that can contain, for example, information about the current programme.

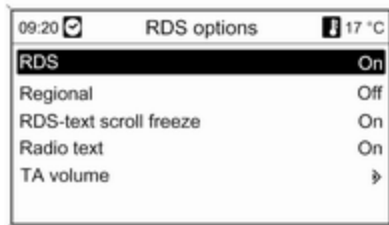


Configuring RDS

To open the menu for the RDS configuration:

Press the **CONFIG** button.

Select **Radio settings** and then **RDS options**.



Switching RDS on and off

Set **RDS** to **On** or **Off**.

Notice

If RDS is switched off, it will be automatically switched on again when a radio station is changed (by search function or preset button).

Switching regionalization on and off (RDS must be activated for regionalization)

At certain times, some RDS stations broadcast regionally different programmes on different frequencies.

Set **Regional** to **On** or **Off**.

If regionalization is switched on, only alternative frequencies (AF) with the same regional programmes are selected.

If regionalization is switched off, alternative frequencies of the stations are selected without regard to regional programmes.

RDS scrolling text

Some RDS stations use the lines for indicating the name of the programme to also indicate additional information. During this process the programme name is hidden.

To prevent additional information being displayed:

Set **RDS-text scroll freeze** to **On**.

Radio text

If RDS and reception of an RDS station are activated, information about the programme that is currently receivable and about the music track currently playing are displayed below the programme name.

To show or hide the information:

Set **Radio text** to **On** or **Off**.

TA volume

The volume of the traffic announcements (TA) can be preset ↻ 14.

Radio traffic service

(TP = Traffic Programme)

Radio traffic service stations are RDS stations that broadcast traffic news.

Switching the radio traffic service on and off

To switch the traffic announcement standby facility of the Infotainment system on and off:

Press the **TP** button.

- If the radio traffic service is switched on, [] is indicated on the display in black (grey if radio traffic service is switched off).
- Only radio traffic service stations are received.
- If the current station is not a radio traffic service station, a search is started automatically for the next radio traffic service station.

- If a radio traffic service station has been found, **[TP]** is indicated on the display in black. If no radio traffic service stations are found, TP is displayed in grey.
- Traffic announcements are played at the preset TA volume ⇨ 14.
- If the radio traffic service is switched on, CD/MP3 replay is interrupted for the duration of the traffic announcement.

Listening to traffic announcements only

Switch on the radio traffic service and completely turn down the volume of the Infotainment system.

Blocking out traffic announcements

To block out a traffic announcement, e.g. during CD/MP3 replay:

Press **TP** button or the multifunction knob to confirm the cancel message on the display.

The traffic announcement is aborted, but the radio traffic service remains switched on.

EON (Enhanced Other Networks)

With EON you can listen to radio traffic announcements even if the station you have set does not broadcast its own radio traffic service. If such a station is set, it is displayed in black as for radio traffic service stations **TP**.

Digital audio broadcasting

Digital audio broadcasting (DAB) is an innovative and universal broadcast system.

DAB stations are indicated by the programme name instead of the broadcasting frequency.

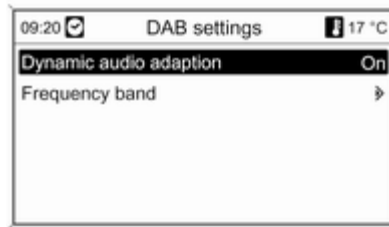


General information

- With DAB, several radio programmes (services) can be broadcast on a single frequency (ensemble).
- Besides high-quality digital audio services, DAB is also able to transmit programme-associated data and a multitude of other data services including travel and traffic information.
- As long as a given DAB receiver can pick up the signal sent out by a broadcasting station (even if the signal is very weak), sound reproduction is ensured.

- There is no fading (weakening of the sound) that is typical of AM or FM reception. The DAB signal is reproduced at a constant volume.
- Interference caused by stations that are on nearby frequencies (a phenomenon that is typical of AM and FM reception) does not occur in connection with DAB.
- If the DAB signal is reflected by natural obstacles or buildings, the reception quality of DAB is improved, whereas AM or FM reception is considerably impaired in such cases.

Configuring DAB



Press the **CONFIG** button.

Select **Radio settings** and then **DAB settings**.

The following options are available in the configuration menu:

- **Dynamic audio adaption:** with this function activated, the dynamic range of the DAB signal is reduced. That means the level of the loud sounds is reduced, but not the level of the quiet sounds. Therefore the volume of the Infotainment system

can be raised to a point where the quiet sounds are audible, without the loud sounds being too loud.

- **Frequency band:** after selection of this option the user can define which DAB wavebands are to be received by the Infotainment system.

CD Player

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General information

The Infotainment system's CD player can replay audio CDs and MP3/WMA CDs.

Important information about audio CDs and MP3/WMA CDs

Caution

Under no circumstances place DVDs, single-CDs with a diameter of 8 cm or shaped CDs in the audio player.

You must not put any stickers on CDs. These discs can get jammed in the CD drive and ruin the drive. An expensive replacement of the device will then be necessary.

- Audio CDs with copy protection, which are not in compliance with the audio CD standard, may not play correctly or not at all.
- Self-recorded CD-Rs and CD-RWs are more vulnerable to mishandling than prerecorded CDs. Correct

handling, especially in the case of self-recorded CD-Rs and CD-RWs, must be ensured; see below.

- Self-recorded CD-Rs and CD-RWs may not play correctly or not at all.
- On mixed mode CDs (combinations of audio and data, e.g. MP3), only the audio tracks will be detected and played.
- Avoid leaving fingerprints when you change CDs.
- Put CDs back in their sleeves immediately after removing them from the audio player in order to protect them from damage and dirt.
- Dirt and liquids on CDs can smear the lens of the audio player inside the device and cause faults.
- Protect CDs from heat and direct sunlight.
- The following restrictions apply for the data stored on an MP3/WMA CD:
 - Maximum folder structure depth: 11 levels.
 - Maximum number of MP3/WMA files that can be saved: 1000.

WMA files with Digital Rights Management (DRM) from online music shops cannot be played.

WMA files can only be played back safely if they were created with Windows Media Player version 8 or later.

Applicable playlist extensions: .m3u, .pls

Playlist entries must be in the form of relative paths.

- This chapter deals only with playing MP3 files since the operation for MP3 and WMA files is identical. When a CD with WMA files is loaded MP3 related menus are displayed.

Usage



Starting CD replay

Push CD with the labelled side upward into the CD slot until it is pulled in.

CD replay starts automatically and the **Audio CD** or **Audio MP3** menu is displayed.

If there is already a CD in the unit, but the **Audio CD** or **Audio MP3** menu is not active:

Press **CD/AUX** button.

The **Audio CD** or **Audio MP3** menu is opened and CD replay is started.

Depending on the data stored on the audio CD or MP3 CD differing information about the CD and the current music track will be shown on the display.

Selecting a track

Turn the multifunction knob to display a list of all tracks on the CD. The currently played track is preselected. Select the desired track.

Skipping to the next track or previous track

Briefly press **◀ K** or **▶ K** button once or several times.

Track search forward or backward

Briefly press **◀ K** or **▶ K** button and then press **◀ K** or **▶ K** button again and keep pressed until the desired track is displayed.

Fast forward or rewind

Press and hold button **◀ K** or **▶ K** to fast forward or rewind the current track.

Selecting tracks using the audio CD or MP3 menu

During audio CD replay

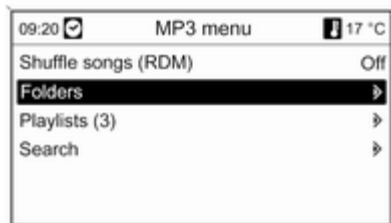


Press the multifunction knob to open the audio CD related menu.

To play all tracks in random order: set **Shuffle songs (RDM)** to **On**.

To select a track on the audio CD: select **Track list** and then select the desired track.

During MP3 replay



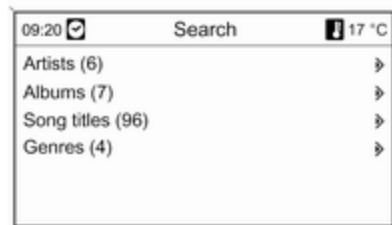
Press the multifunction knob to open the MP3 related menu.

To play all tracks in random order: set **Shuffle songs (RDM)** to **On**.

To select a track from a folder or playlist (if available): select **Folders** or **Playlists**.

Select a folder or playlist and then select the desired track.

Select **Search** to open a menu with additional options for track search and selection.



Depending on the amount of tracks saved, the search process may take several minutes.

Select a search option and then select the desired track.

Removing a CD

Press **△** button.

The CD is pushed out of the CD slot.

If the CD is not removed after ejection, it will be drawn back in again automatically after a few seconds.

AUX input

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Usage	27

General information



In the centre console in front of the gearshift lever there is an AUX socket for the connection of external audio sources.

It is possible, for example, to connect a portable CD player with a 3.5 mm jack plug to the AUX input.

Notice

The socket must always be kept clean and dry.

Usage

Press the **CD/AUX** button once or several times to activate the AUX mode.



An audio source that is connected to the AUX input can be operated only via the control elements of the audio source.

USB port

General information	28
Playing saved audio files	29

General information



In the centre console in front of the gearshift lever there is a USB socket for the connection of external audio data sources.

Notice

The socket must always be kept clean and dry.

An MP3 player, USB drive or an iPod can be connected to the USB port.

Notice

Not all MP3 player, USB drive and iPod models are supported by the Infotainment system.

Important information

MP3 player and USB drives

- The MP3 players and USB drives connected must comply with the USB Mass Storage Class specification (USB MSC).
- Only MP3 players and USB drives with a cluster size smaller or equal to 64 kB in the FAT16/FAT32 file system are supported.
- Hard disk drives (HDD) are not supported.
- USB hubs are not supported.
- The following restrictions apply for the data stored on an MP3 Player or USB device:

Maximum folder structure depth: 11 levels.

Maximum number of MP3/WMA files that can be saved: 1000.

WMA files with Digital Rights Management (DRM) from online music shops cannot be played.

WMA files can only be played back safely if they were created with

Windows Media Player version 8 or later.

Applicable playlist extensions: .m3u, .pls

Playlist entries must be in the form of relative paths.

The system attribute for folders/files that contain audio data must not be set.

Playing saved audio files

MP3 player / USB drives



Press the **CD/AUX** button once or several times to activate the audio USB mode.

Replay of the audio data stored on the USB device is started.

The operation of data sources connected via USB is the same as for an audio MP3/WMA CD ↻ 25.

iPod



Press the **CD/AUX** button once or several times to activate the audio iPod mode.

Replay of the audio data stored on the iPod is started.

The operation of the iPod connected via USB is mainly the same as for an audio MP3/WMA CD ↻ 25.

On the following pages only the aspects of operation that are different/additional are described.

iPod functions



Depending on the data saved, there are various options for the selection and playing of tracks.

Press the multifunction knob and then select **Search** to display the options available.

The search process on the device may take several seconds.

Digital picture frame

General information	31
Usage	31

General information

Using the digital picture frame function you can view your favourite pictures (or photos), one at a time, on the display of the Infotainment system.

You can download your favourite pictures from a USB drive connected to the USB port ↻ 28 of the Infotainment system.

Up to 10 pictures can be stored in the Infotainment system's memory.

The pictures are shown on the display in their original ratio (borders if necessary are black) and orientation.

Important information

- The pictures you want to download need to be stored in the root directory (e.g., "F:\") of the USB drive.
- Only the first 100 pictures (sequentially sorted as stored in the root directory of the USB drive) will be offered for download.

- Only pictures in JPEG standard format (file extensions, e.g., .jpg or .jpeg) are supported.

Example: "F:\myPicture.jpg", where "F:\\" is the root directory of the USB drive.

- The maximum supported resolution of a picture is 12 Mega pixel.

Pictures with higher resolutions are down-scaled (resized) during download.

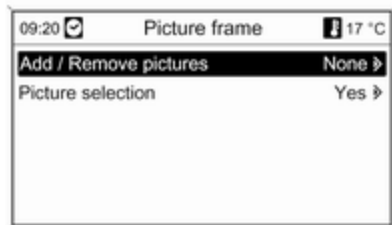
Pictures with lower resolutions are not up-scaled (not resized) during download and centred in the middle of the display.

Usage

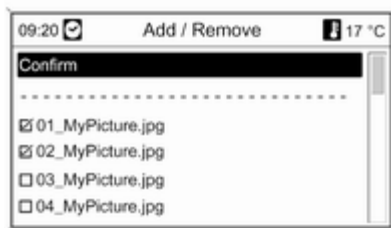
Downloading and/or removing pictures

Connect a USB drive with your favourite pictures (or photos) stored on it to the USB port ↻ 28 of the Infotainment system.

Press the **CONFIG** button, select **Display settings**, and then select **Picture frame**. The menu shown below is displayed.



Select **Add / Remove pictures** to open the menu shown below.



The menu shows a list with the file names of all pictures (note the restrictions described in "Important information" above) stored in the root directory of the connected USB drive.

If pictures were already stored in the Infotainment system's memory, that "old" pictures are listed first on the menu and indicated by **MEM**, see image below.

If you want to have removed "old" pictures, you need to deselect them before downloading new pictures.



Select max. 10 pictures that you want to be downloaded (added) to the Infotainment system's memory or stay stored in that memory.

Select **Confirm** to start the picture download and/or removal.

A message is displayed that shows how many pictures are going to be downloaded and/or removed.

Select **Continue** if you want to start the download and/or removal.

Displaying pictures

Pictures stored in the Infotainment system's memory can be shown on the display one at a time.

Press the **CONFIG** button, select **Display settings**, select **Picture frame**, and then select **Picture selection**. The menu shown below is displayed.



Select the picture you want to be shown on the display.

Press the **INFO** button several times until the currently selected picture is shown on the display.

To display a default Infotainment menu again, press any button on the Infotainment system.

As long as a picture stays selected in the **Picture selection** menu, it can be displayed at any time using the **INFO** button.

Navigation

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General information

The navigation system will reliably guide you to your destination without the need to read maps, even if you have no local knowledge whatsoever.

The current traffic situation is taken into account in the route calculation if dynamic route guidance is used. For this purpose the Infotainment system receives traffic announcements in the current reception area via RDS-TMC.

The navigation system cannot, however, take into account traffic incidents, traffic regulations changed at short notice and hazards or problems that arise suddenly (e.g. road works).

Caution

The usage of the navigation system does not release the driver from the responsibility for a correct, vigilant attitude in road traffic. The relevant traffic regulations must always be

followed. If a navigation instruction contradicts traffic regulations, the traffic regulations always apply.

Functioning of the navigation system

The position and movement of the vehicle are detected by the navigation system using sensors. The travelled distance is determined by the vehicle's speedometer signal, turning movements on bends by a gyro sensor. The position is determined by the GPS satellites (Global Positioning System).

By comparing the sensor signals with the digital maps on the map SD card, it is possible to determine the position with an accuracy of approx. 10 metres.

The system will also work with poor GPS reception, however, the accuracy of the determination of the position will be reduced.

After the entry of the destination address or point of interest (nearest petrol station, hotel, etc.) the route is calculated from the current location to the destination selected.

The route guidance is provided by voice output and an arrow, as well as with the aid of a multi-colour map display.

TMC traffic information system and dynamic route guidance

The TMC traffic information system receives all current traffic information from TMC radio stations. If dynamic route guidance is active, this information is included in the calculation of the overall route. During this process, the route is planned so that traffic problems related to pre-selected criteria are avoided.

If there is a traffic problem during active route guidance, depending on the pre-settings, a message appears as to whether the route should be changed.

TMC traffic information is displayed in the route guidance display as symbols or as detailed text on the **TMC messages** menu.

To be able to use TMC traffic information, the system has to receive TMC stations in the relevant region.

Dynamic route guidance only works if traffic information is received via the TMC traffic information system.

The dynamic route guidance function can be deactivated in the **Navigation options** menu, see chapter "Guidance" ↗ 58.

Map data

All required map data is stored on an SD card provided with the Infotainment system.

Detailed descriptions on map SD card handling and replacement, see chapter "Maps" ↗ 65

Usage

Control elements

The most important navigation-specific control elements are as follows:

NAVI button: activate navigation; show current position (if route guidance inactive); show calculated route (if route guidance active); toggle between full map display, arrow display (if route guidance active) and split screen display, see "Information on the display" below.

DEST button: open menu with options for destination entry.

Eight-way switch: move display window in navigation map view; to select the destination, press in the required direction to position the crosswires over a destination on the map.

RPT button: repeat last route guidance message.

Activating the navigation system

Press the **NAVI** button.

The map of the current location is shown on the display, see "Information on the display" below.

Route guidance messages

In addition to the visual instructions on the display (see "Information on the display" below), route guidance messages will be announced when route guidance is active.

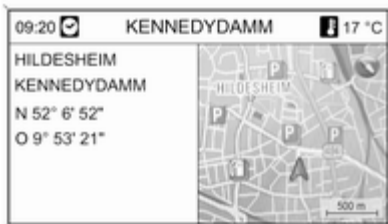
Presetting the volume of route guidance messages: see "Setting up the navigation system" below.

Adjusting the volume of route guidance messages while they are announced: turn the \odot knob.

Repeating the last announced route guidance message: press the **RPT** button.

Information on the display

Route guidance not active



If route guidance is not active, the following information is displayed:

- In the top line: time, street name of current position, exterior temperature.
- Address and geographic coordinates of current position.
- Map display of the area around the current position.
- On the map: current position marked by a red triangle.

A compass symbol that indicates the north direction.

If no GPS signal is available at the current position, a crossed "GPS" symbol is displayed below the compass symbol.

The currently selected map scale (change scale: turn multifunction knob).

Notice

To change to full map display: press **NAVI** button.

Route guidance active

If route guidance is active, the following information is displayed (depending on the current **Navigation options** settings, see chapter "Guidance" \rightarrow 58):

Information in the top line



- Time
- Distance to the final destination
- Arrival time or travel time
- Exterior temperature

Information on the arrow display

- A big arrow representing the direction to follow.
- A small arrow representing the next but one driving recommendation.
- Distance to the next intersection.
- Streets leading off the current street to follow.

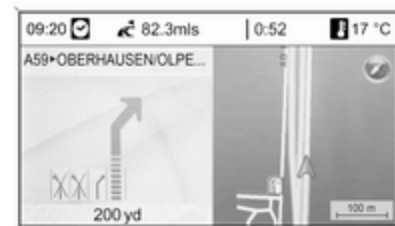
- Below the arrow symbol: the name of the current street to follow.
- Above the arrow symbol: the name of the street to follow after the next intersection.
- While driving on highways:



Driving direction and distance to the next highway exit, which you need to follow.

Distances to the next service areas, parking areas, intersections and/or exits on the highway.

- When reaching a highway intersection information regarding lane guidance is displayed:



If the option **Highway lane guidance** is activated in the **Display route guidance** menu (see chapter "Guidance" ⇨ 58) the following type of illustration is displayed:



Information on the map display



On the right side of the display the following information is shown:

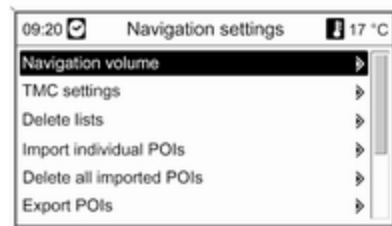
- A compass symbol that indicates the north direction.
- If no GPS signal (see chapter "General information" ↗ 34) is available at the current position: a crossed "GPS" symbol is displayed below the compass symbol.
- The currently selected map scale (change scale: turn multifunction knob).

On the map the following information is shown:

- The route as a blue line.
- The current position as a red triangle.
- The final destination as a chequered flag.
- Various symbols (see chapter "Symbols overview" ↗ 68) that indicate traffic information and general information or points of interest.

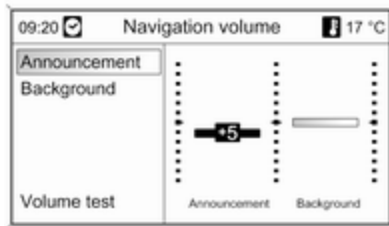
Setting up the navigation system

Press the **CONFIG** button and then select **Navigation settings** to open a menu with navigation-specific settings.



Navigation volume

The relative volumes of the navigation message (**Announcement**) and the audio source (**Background**) during a navigation message can be preset.



Set the desired values for **Announcement** and **Background**.

To test the current settings: select **Volume test**.

TMC settings

Select **Infotypes** to open a submenu with various options to define whether and which traffic message infotypes are to be displayed on the active route guidance map.

When **User defined** is selected, the infotypes that are to be displayed can be defined.

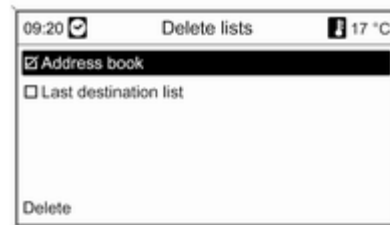
Sort criteria

Select whether traffic messages are to be displayed in an order based on distance or street name.

Warning messages when route guidance is inactive

Decide whether the Infotainment system should announce warning messages even if no route guidance is active.

Delete lists



Select whether all entries in the **Address book** or in the **Last destinations** are to be deleted.

Import individual POIs

Only applicable if a USB drive with points of interest (POI) data stored on it is connected to the USB port 28 of the Infotainment system.

Importing POI data from a USB drive, see "Exporting and importing POI data" below.

Delete all imported POIs

Only applicable if POI data were imported to the Infotainment system, see "Exporting and importing POI data" below.

Select this menu item to remove all imported POI data from the myPOIs memory of the Infotainment system.

Notice

It is not possible to directly remove individual imported points of interest from the myPOIs memory.

If you want to remove individual imported POIs: import updated POI data to the Infotainment system that do not contain the address data of the regarding POIs.

To remove all imported POIs of a certain category: import an empty POI data file of the regarding category to the Infotainment system.

Export POIs

Exports all POI data stored in the myPOIs memory of the Infotainment system to a USB drive connected to the USB port ↗ 28, see "Exporting and importing POI data" below.

Delete Home address

Deletes the currently set home address (displayed in the **Enter destination** menu, see chapter "Destination input" ↗ 44).

Exporting and importing POI data

Introductory explanations

Types of POI data

The Infotainment system provides the following types of points of interest data:

- Predefined **Points of Interest** stored on the map SD card and indicated by icons on the map display.

You can store such predefined POIs in the address book or as individual POIs in the myPOIs memory of the Infotainment system, see below.

- Favourite destination addresses that were stored in the **Address book**.

You can export these address book data to a USB drive for later use, e.g., in other vehicles.

- **Individual POIs**: favourite destination addresses that were stored in the myPOIs memory.

You can export these individual POI data to a USB drive for later use, e.g., in other vehicles.

- **User defined POIs**: favourite destination addresses that you defined via GPS coordinates (taken, e.g., from a topographical map) and that you entered into text files.

You can store these user defined POI data on a USB drive and later import the data to the myPOIs

memory of the Infotainment system, see below.

- **Imported POIs**: favourite destination addresses that were previously stored on a USB drive and then imported to the myPOIs memory of the Infotainment system.

Advantages of POI export and import

The export and import of points of interest data offer you, e.g., the following advantages:

- Define and store your favourite destination addresses only once, and later use these address data in other vehicles.

See "Exporting and importing individual POIs and address book entries" below.

- Define your favourite destination addresses conveniently at home, and later use them in your vehicle.

See "Creating and importing user defined POIs" below.

- Clearly arrange a large amount of destination addresses, e.g.,

favourite destination addresses of other family members or destination addresses for your next journey or business trip in separate submenus.

See "Organizing the POI data in several subfolders" below.

Exporting and importing individual POIs and address book entries

Brief description:

1. Connect a USB drive to the USB port of your vehicle's Infotainment system.
2. Store (export) your favourite destination addresses on the USB drive.
3. Connect the USB drive to the USB port of a vehicle equipped with a Navi 600 or Navi 900 system.
4. Download (import) the address data to the vehicle's Infotainment system.

After the import, the addresses can be selected as destinations for route guidance.

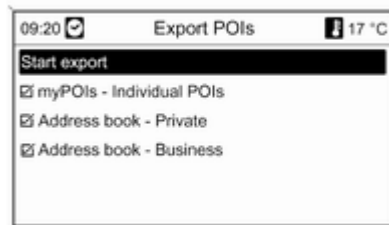
Detailed descriptions see below.

Exporting POI data to a USB drive

Connect a USB drive to the USB port of the Infotainment system, see chapter "USB port" ⇨ 28.

Press the **CONFIG** button, select **Navigation settings** and then select **Export POIs**.

The **Export POIs** menu is displayed.



By default all individual POIs stored in the myPOIs memory and all address book entries will be exported.

If desired, deselect the address data types that you do not want to be exported.

Select **Start export** to store the address data of the selected type(s) on the connected USB drive.

The address data will be stored in a folder named **myPOIs** that is located in the root directory of the USB drive.

For each exported POI category, e.g. **Restaurant** or **Private**, you will find a correspondingly named file in that folder.

Examples:

F:\myPOIs\Restaurant_3.poi or
F:\myPOIs\Private_1.poi, where **F:** is the root directory of the USB drive.

Notice

If files with POI data of the same category are already stored on the USB drive in the **myPOIs** folder, these old file versions will be overwritten by equally named new file versions.

The folder **myPOIs** and the files with POI data should not be renamed or moved into another folder on the USB drive. Otherwise the Infotainment system will not be able to import the address data again.

Importing POI data from a USB drive

Connect a USB drive with POI data stored on it (details see above) to the USB port of the Infotainment system, see chapter "USB port" ⇨ 28.

To start the import: press the **CONFIG** button, select **Navigation settings**, select **Import individual POIs** and then select **Continue**.

All POI data stored on the USB drive is imported to the myPOIs memory of the Infotainment system.

After the import is finished, the imported POIs are selectable as destinations via the **Enter destination** menu, see chapter "Destination input" ⇨ 44.

Creating and importing user defined POIs

User defined points of interest need to be defined via GPS coordinates that can be taken, e.g., from a topographical map.

The GPS coordinates and further address data need to be entered into text files, each file representing a POI category.

Brief description:

1. Create the text files for the POI data.
2. Enter the desired address data into the text files.
3. Store the text files with your POI data on a USB drive.
4. Connect the USB drive to the USB port of your vehicle's Infotainment system.
5. Download (import) the text files with your POI data to the Infotainment system.

After the import, the addresses can be selected as destinations for route guidance.

Detailed descriptions see below.

Creating the text files for POI data

You can assign your favourite destination addresses to 20 different POI categories, with each POI category assigned a number, see "POI categories and assigned numbers" below.

For each POI category you need to create a separate text file.

The text files can be created, e.g., by using a simple text editor software.

Notice

The text editor must support the UTF-8 character encoding for Unicode.

Each text file name need to consist of the category name, a single underscore, the category's number and the file extension **.poi**.

Example file names:

- **Business_2.poi**
- **Home & Living_8.poi**
- **Culture_15.poi**

Notice

The length of the text file names is limited to 32 characters.

POI categories and assigned numbers:

(1) **Private**, (2) **Business**, (3) **Restaurant**, (4) **Hotel**, (5) **Automotive**, (6) **Travel**, (7) **Cinema**, (8) **Home & Living**, (9) **Shopping**, (10) **Craft**, (11) **Sport**, (12) **Sight**, (13)

Health care, (14) Leisure, (15)
 Culture, (16) Nightlife, (17)
 Communication, (18) News &
 broking, (19) Government office, (20)
 General.

Entering POI data into the text files

The image below shows a sample text file named **Home & Living_8.poi** with some sample POI data:



The POI data need to be entered into the text files in the following format:

Longitude coordinate, Latitude coordinate, "Name of POI", "Any additional information", "Phone number (optional)"

Example: 7.0350000, 50.6318040, "Michaels Home", "Bonn - Hellweg 6", "02379234567", see image above.

The GPS coordinates need to be expressed in decimal degrees.

The maximum length of the POI name is 60 characters. The same applies to the additional information string and the phone number string.

The POI data of each destination address need to be entered in a single separate line, see image above.

Storing the text files on a USB drive

The text files with POI data need to be stored in a folder named **myPOIs** that is located in the root directory of the USB drive.

Example: F:\myPOIs\Home & Living_8.poi, where F:\ is the root directory of the USB drive.

After importing the individual POI data to the Infotainment system (see import description further below), the **Imported POIs** menu will show a list of selectable POI categories like the following:

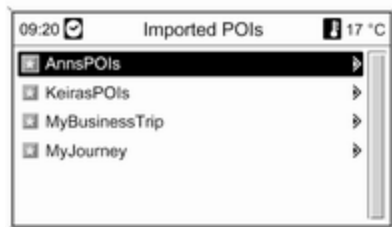


Organizing the POI data in several subfolders

Optionally you can organize the text files in several, arbitrary named, subfolders.

Examples: F:\myPOIs\AnnsPOIs or F:\myPOIs\MyJourney, where F:\ is the root directory of the USB drive.

After importing individual POI data organized in that way to the Infotainment system (see import description further below), the **Imported POIs** menu will show a list of selectable submenus like the following:



After selecting a submenu, the related list of imported POI categories will be displayed.

Importing the POI data to the Infotainment system

Connect the USB drive with your individual POI data to the USB port of the Infotainment system, see chapter "USB port" ⇨ 28.

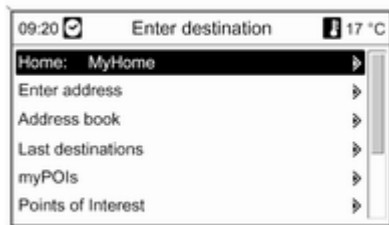
To start the import: press the **CONFIG** button, select **Navigation settings**, select **Import individual POIs** and then select **Continue**.

All POI data stored on the USB drive is imported to the myPOIs memory of the Infotainment system.

After the import is finished, the imported POIs are selectable as destinations via the **Enter destination** menu, see chapter "Destination input" below.

Destination input

Press the **DEST** button to open a menu with various options for entering or selecting a destination.



- **Home:** selection of the currently set home address (if available). Setting/changing the home address, see "Setting the home address" below.

After selecting the home address, the Infotainment system immediately calculates a route from the current position to the home address and then starts route guidance.

- **Enter address:** direct entry of a destination address with country, city, street and house number. See "Entering an address directly" below.
 - **Address book:** selection of a destination address stored in the address book. See "Selecting an address from the address book" below.
- See also "Storing an address in the address book or myPOIs memory" and "Editing or deleting a stored address" below.

- **Last destinations:** selection from a list of recently selected destinations. See "Selecting a previous destination" below.
- **myPOIs:** selection of a destination address stored in the myPOIs memory. See "Selecting an

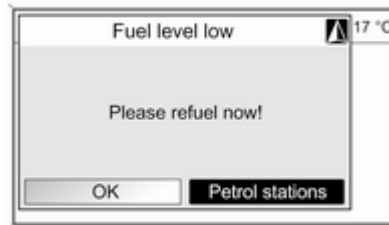
address stored in the myPOIs memory" below.

See also "Storing an address in the address book or myPOIs memory" and "Editing or deleting a stored address" below.

- **Points of Interest:** selection of POIs (addresses of, e.g., restaurants, petrol stations, hospitals etc.) stored on the map SD card of the Infotainment system. See "Selecting a point of interest" below.
- **Select from map:** selection of a destination from the map display using the eight-way switch ↻ 6. See "Selecting a destination from the map" below.
- **Latitude / Longitude:** selection of a destination using geographic coordinates. See "Selecting a destination via geographic coordinates" below.

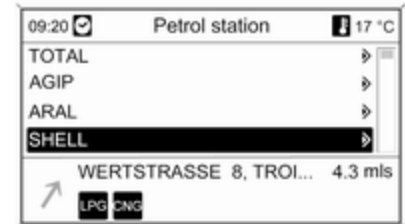
Selecting a petrol station as destination after a Fuel level low alert

When the fuel level in the vehicle's tank is low, an alert message is displayed.



To start a search for petrol stations close to the vehicle's current position: select **Petrol stations**.

After the search is finished, a list of all found petrol stations is displayed.



Below the list detailed information on the currently marked petrol station is displayed: the approximate direction to the petrol station, the address, the distance and the available fuel types (in addition to Petrol and Diesel).

Abbreviations used for fuel types:
CNG (Compressed natural gas),
LPG (Liquefied petroleum gas).

Starting route guidance to a petrol station

Select the desired petrol station.

The **Navigation** menu is displayed.

Select **Start navigation** to start route guidance to the displayed address.

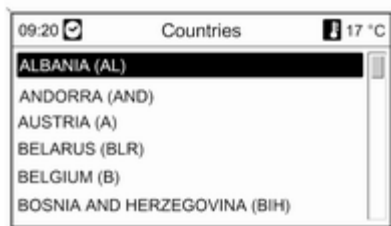
Description on route guidance, see chapter "Guidance" ↗ 58.

Entering an address directly

Press the **DEST** button and then select **Enter address** to open the menu shown below.



To change/select the country: mark the country input field (see image above) and then press the multifunction knob to open the **Countries** menu.



Select the desired country.

Entering an address using the speller function

Mark the **City:** input field and then press the multifunction knob to activate the speller function.



Using the multifunction knob, successively mark and accept the letters for the desired city. During this process the system will automatically block letters that cannot occur next in the city name.

The following symbols can be selected in the bottom line:

- ↑ : Lists with special letters are displayed in the bottom line.
- ◀▶ : Previous/next letter is marked.
- ✕ : Delete last letter.
- Aa : Upper, lower case.

☐ : List function - once two letters have been entered (in some cases just one letter), all names available with these letters are displayed. The more letters are entered, the shorter becomes the list.

OK : Complete entry or accept search term.

By a long press on the **BACK** button all letters entered are deleted at once from the input line.

Repeat the process for the remaining input fields (entering a house number or junction is optional).



After completing the address, select **OK**.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

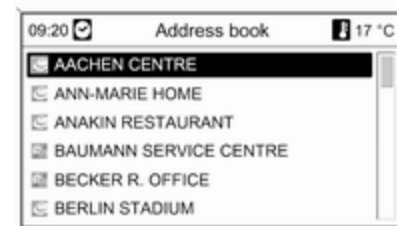
Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Selecting an address from the address book

Press the **DEST** button and then select **Address book**.



Select the desired address book entry.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Selecting a previous destination

Press the **DEST** button and then select **Last destinations** to open the menu shown below.



A list of the most recently used destination addresses is displayed.

Select the desired destination.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

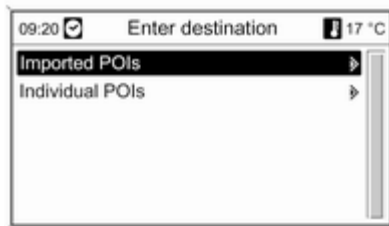
Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Selecting an address stored in the myPOIs memory

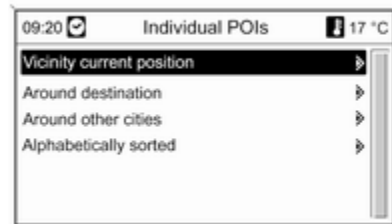
Press the **DEST** button and then select **myPOIs** to open the menu shown below.



Notice

The option **Imported POIs** is only selectable if points of interest (address) data were downloaded from a USB drive, see "Exporting and importing POI data" in section "Usage" above.

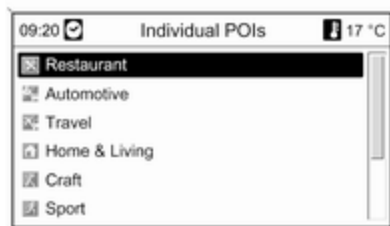
Select the desired option. A menu with various sorting options is displayed.



The sorting options determine in which order the addresses of the individual/imported points of interest will be displayed later.

Select the desired sorting option.

A menu with the currently available points of interest categories is displayed.



Select the desired category.

A menu with a list of all available points of interest of the selected category (e.g. **Restaurant**) is displayed.

Notice

Points of interest which are far away from the vehicle's current position may not be displayed in the list.



Below the list detailed information on the currently marked point of interest is displayed: the approximate direction to the point of interest, the address and the distance.

Starting route guidance to a point of interest

Select the desired point of interest.

The **Navigation** menu is displayed.

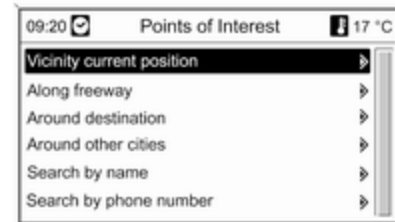
Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Selecting a point of interest

Press the **DEST** button and then select **Points of Interest**.

A menu with various options for the selection of points of interest (e.g. restaurants, petrol stations, hospitals etc.) is displayed.



Vicinity current position

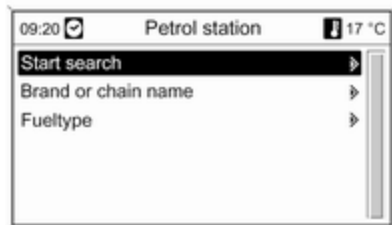
Selection of points of interest close to the vehicle's current position.

After selecting the option, a list of all available points of interest categories is displayed.

For example, you are looking for a petrol station:

Select **Automotive & Petrol Stations**.

A menu is displayed that provides options for further refinement of the petrol station search.



After selecting **Start search**, a search for all petrol stations in the area is started. The search takes into account all petrol stations that meet the currently set filter criteria for **Brand or chain name** and **Fueltype** (changing the filter criteria, see "Setting filters for search refinement" below).

After the search is finished, a list of all found petrol stations is displayed.



Below the list detailed information on the currently marked petrol station is displayed: the approximate direction to the petrol station, the address, the distance and the available fuel types (in addition to Petrol and Diesel).

Abbreviations used for fuel types: **CNG** (Compressed natural gas), **LPG** (Liquefied petroleum gas).

Setting filters for search refinement

After selecting **Brand or chain name**, a list is displayed with all available petrol station brands/chains in the area.



The number of petrol stations can be reduced by marking at least one petrol station brand/chain.

After marking the desired brands/chains: select **Start search with selected filters** or, for further refinement of the search, select **Continue with next filter** (fuel types).

After selecting **Fueltype**, a list is displayed with all fuel types available (in addition to Petrol and Diesel) at petrol stations in the area.

The number of petrol stations can be reduced by marking at least one fuel type.

After marking the desired fuel types: select **Start search with selected filters** or, for further refinement of the search, select **Continue with next filter** (petrol station brands/chains).

After starting a search, a list of all petrol stations that meet the previously selected filter criteria is displayed.

Select the desired petrol station.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Along freeway

Selection of motorway related points of interest (e.g. petrol stations or service areas) along the route. Only available when you are currently driving on a motorway.

Selecting a point of interest: see example above for "Vicinity current position".

Around destination

Selection of points of interest close to the destination entered.

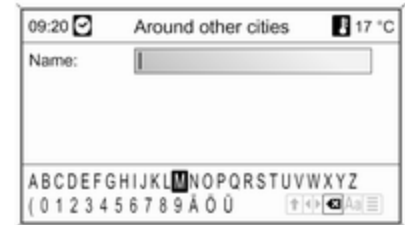
Selecting a point of interest: see example above for "Vicinity current position".

Around other cities


Selection of points of interest around any city.

After selecting the option, a country list is displayed.

Select the desired country. A menu for entering a city name is displayed.



Enter the desired city using the speller function, see "Entering an address using the speller function" above.

Once the entry is specific enough, a list with possible cities is displayed. Sometimes it may be necessary to select  to display the list.

Select the desired city. A menu appears on which the points of interest close to the selected city are listed by category.

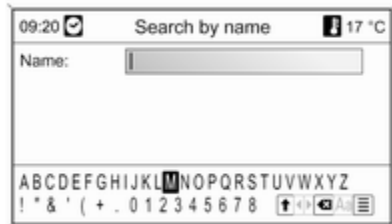
Selecting a point of interest: see example above for "Vicinity current position".

Search by name


Selection of points of interest by entering a name.

After selecting the option, a country list is displayed.

Select the desired country. A menu for name input is displayed.



Enter the name of the desired point of interest using the speller function, see "Entering an address using the speller function" above.

Once the entry is specific enough, a list with possible points of interest is displayed. Sometimes it may be necessary to select  to display the list.

Select the desired point of interest.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Search by phone number


Selection of points of interest by entering a telephone number.

After selecting the option, a country list is displayed.

Select the desired country. A menu for number input is displayed.



Enter the desired telephone number using the speller function, see "Entering an address using the speller function" above.

Once the entry is specific enough a list with possible telephone numbers (each number representing a point of interest) is displayed. Sometimes it may be necessary to select  to display the list.

Select the desired point of interest.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Selecting a destination from the map

Press the **DEST** button and then select **Select from map**.

A menu with a map showing the area around the current location is displayed.



Notice

The map scale can be changed by turning the multifunction knob.

Using the eight-way switch on the multifunction knob ↗ 6 position the crosswire on a destination on the map.

Press the multifunction knob to confirm the selection.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Storing the address

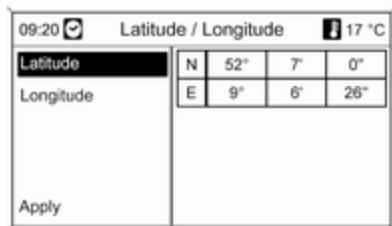
Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Selecting a destination via geographic coordinates

Press the **DEST** button and then select **Latitude / Longitude**.

A menu that allows the input of geographic coordinates as destination address is displayed.



Entering the Latitude coordinate

1. Select **Latitude**.
2. Turn the multifunction knob to select **N** or **S** (north or south of the equator).
3. Press the multifunction knob to confirm the selection.
4. Turn the multifunction knob to enter the desired degrees of latitude.
5. Press the multifunction knob to confirm the entry.
6. Enter the desired values for the latitude minutes and seconds.

Entering the Longitude coordinate

1. Select **Longitude**.
2. Turn the multifunction knob to select **W** or **E** (west or east of the prime meridian in Greenwich).
3. Press the multifunction knob to confirm the entry.
4. Enter and confirm the desired values for the longitude degrees, minutes and seconds.

Select **Apply** to confirm the displayed coordinates.

The **Navigation** menu is displayed.

Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 58.

Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

Storing an address in the address book or myPOIs memory

The Infotainment system provides two separate memory areas where you can store your favourite destination addresses: the address book and the myPOIs memory.

Before storing an address in one of these memory areas, you need to assign the address to a category:

- If you want to store an address in the address book, you need to assign the address to the categories **Private** or **Business**.
- If you want to store an address in the myPOIs memory, you can choose from 18 categories (e.g. **Restaurant**, **Travel** or **Culture**).

Storing an address in the address book

Press the **DEST** button to open the **Enter destination** menu, and then select an option for the input or selection of a destination address (e.g. **Enter address** or **Last**

destinations), see regarding descriptions on address input or selection above.

After entering or selecting the desired destination address, the **Navigation** menu is displayed.

Select **Store**.

The menu **Store** is displayed, with the previously entered or selected destination address as default name.

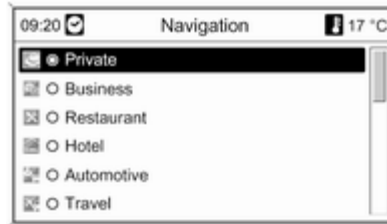
The default name can be changed (see example in the image below) using the speller function, see "Entering an address using the speller function" above.



A telephone number can be entered optionally.

The default category **Private** can be changed to **Business**:

Select the displayed category to open a menu with a list of all available address categories.



Notice

If you select another category than **Private** or **Business**, the destination address will be stored in the myPOIs memory not in the address book.

Select **Business**.

The menu **Store** is displayed again.

Select **OK** to store the destination address in the address book using the displayed name and category.

A maximum of 100 destination addresses can be stored in the address book.

Storing an address in the myPOIs memory

Storing a destination address in the myPOIs memory functions the same as described above for the address book.

The only difference: select a category different from **Private** or **Business**, e.g. **Restaurant**, **Automotive** or **Shopping**.

Notice

If you select one of the categories **Private** or **Business**, the destination address will be stored in the address book not in the myPOIs memory.

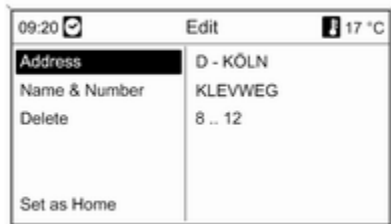
Editing or deleting a stored address

Address data (including the category and telephone number) stored in the address book or myPOIs memory can be edited or entirely deleted at any time.

Editing or deleting an address book entry

Press the **DEST** button, select **Address book**, select the desired address entry and then select **Edit**.

The **Edit** menu is displayed.



The following options are available:

- **Address:** opens the **Enter address** menu. You can edit the displayed address using the speller function, see "Entering an address using the speller function" above.

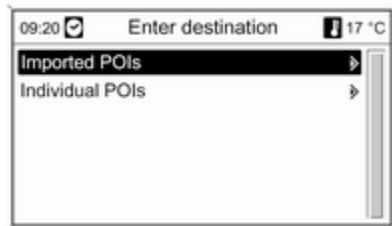
After confirming the edited address, the **Navigation** menu is displayed again.

If you want to edit also the name or change the category, you need to select the regarding address in the address book again, see above.

- **Name & Number:** after selecting this option, you can edit the name of the address book entry, edit the telephone number or select a new category, see "Storing an address in the address book" above.
- **Delete:** deletes the displayed address from the address book.
- **Set as Home:** sets the displayed address as home address, see "Setting the home address" below.

Editing or deleting a myPOIs entry

Press the **DEST** button and then select **myPOIs** to open the menu shown below.



Editing or deleting Individual POIs

Select **Individual POIs**, select the desired sorting option (e.g. **Vicinity current position**), select the desired category (e.g. **Restaurant**), select the desired address and then select **Edit**.

The **Edit** menu is displayed.

Editing or deleting the displayed myPOIs entry functions the same as described for an address book entry, see above.

Notes on Imported POIs

Imported points of interest (POIs downloaded from a USB drive) cannot be edited directly.

If you want to edit the address data of an imported POI:

- You first need to store the address in the address book or as an individual point of interest. Then you can edit the address data of the regarding address book entry or myPOIs entry (selectable via **Individual POIs**).
- Or you can import updated address data from a USB drive, see "Exporting and importing POI data" in chapter "Usage" above.

It is also not possible to directly remove the address data of individual imported points of interest from the myPOIs memory.

If you want to remove individual imported POIs:

Import updated POI data to the Infotainment system that do not contain the address data of the POIs which you want to be removed.

To remove all imported POIs of a certain category: import an empty POI data file of the regarding category.

Descriptions on importing POI data, see "Exporting and importing POI data" in chapter "Usage" above.

Deleting all imported POIs at once:

Press the **CONFIG** button, select **Navigation settings** and then select **Delete all imported POIs**.

Setting the home address

Before you can set an address as home address, you need to store this address in the address book or myPOIs memory, see corresponding descriptions above.

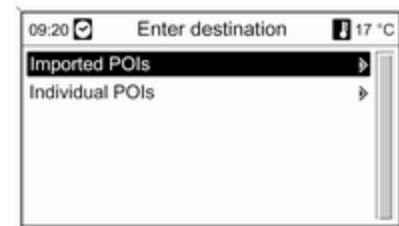
Setting an address book entry as home address

Press the **DEST** button, select **Address book**, select the desired address entry, select **Edit** and then select **Set as Home**.

The displayed address is set as new home address and displayed as first option in the **Enter destination** menu.

Setting a myPOIs entry as home address

Press the **DEST** button and then select **myPOIs** to open the menu shown below.



Setting an individual POI as home address

Select **Individual POIs**, select the desired sorting option (e.g. **Vicinity current position**), select the desired category (e.g. **Restaurant**), select the desired address, select **Edit** and then select **Set as Home**.

The displayed address is set as new home address and displayed as first option in the **Enter destination** menu.

Notes on Imported POIs

Imported points of interest (POIs downloaded from a USB drive) cannot be set as home address directly.

If you want to set the address of an imported POI as home address:

You first need to store the address in the address book or as an individual point of interest.

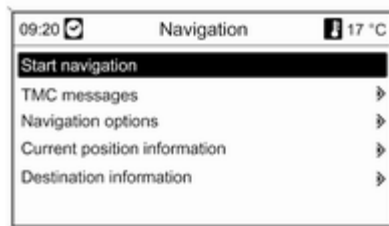
Then you can set the address data of the regarding address book entry or myPOIs entry (selectable via **Individual POIs**) as home address.

Guidance

Press the **NAVI** button and then the multifunction knob to display the navigation main menu.

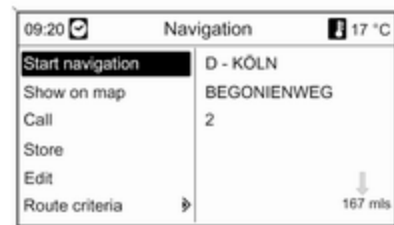
Depending on whether the route guidance is currently inactive or active, different menu options are available.

Functions with route guidance inactive



Start navigation

After selecting **Start navigation** the menu shown below is displayed.



The following options are available:

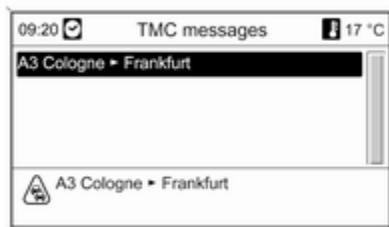
- **Start navigation:** start route guidance to the displayed address.
- **Show on map:** show the location of the displayed address on the map.
- **Call:** not available.
- **Store:** store the displayed address in the address book or myPOIs memory, see "Storing an address in the address book or myPOIs memory" in chapter "Destination input" above.

- **Edit:** change/edit the displayed address, see "Editing or deleting a stored address" in chapter "Destination input" above.
- **Route criteria:** set/change criteria for route calculation, see "Navigation options" below.

TMC messages

Information on TMC, see chapter "Dynamic guidance" ⇨ 34.

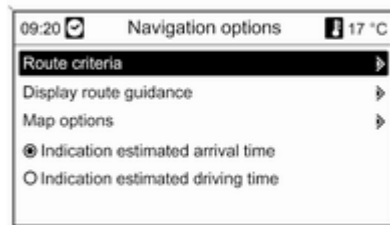
Select **TMC messages** to display a list of all TMC traffic messages that are currently received.



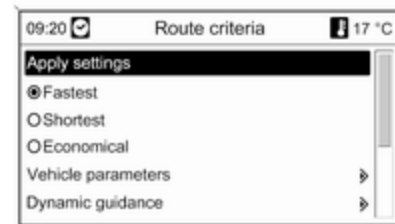
Select a TMC traffic message to display detailed information on the related traffic issue.

Navigation options

The corresponding menu provides options and a multitude of relating submenus for route guidance configuration.



Route criteria

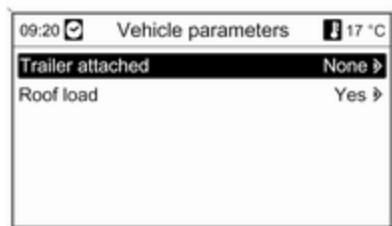


The calculation of the route can be controlled by various criteria.

Select one of the following criteria:

- **Fastest**
- **Shortest**
- **Economic:** an energy-optimized route is calculated, taking into account the vehicle-specific parameters that are currently set in the **Vehicle parameters** menu, see below.

Select **Vehicle parameters** to open a menu for the selection of vehicle-specific parameters.

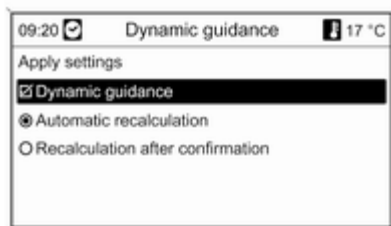


The selected settings will be taken into account for route calculation, if **Economic** is currently selected, see above.

After setting the desired vehicle parameters, press the **BACK** button to leave the menu.

Select **Dynamic guidance** to open a menu for the configuration of dynamic route guidance.

Information on dynamic route guidance, see chapter "Dynamic guidance" ↗ 65.



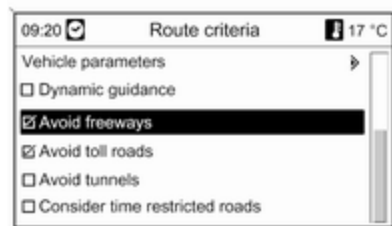
Select **Dynamic guidance** to activate/deactivate dynamic route guidance.

If dynamic route guidance is activated:

Select **Automatic recalibration** if you want the route be recalculated automatically when there are traffic problems.

Select **Recalculation after confirmation** if you want the route be recalculated only after confirming the corresponding message.

Select **Apply settings** to activate the displayed settings and to leave the menu.

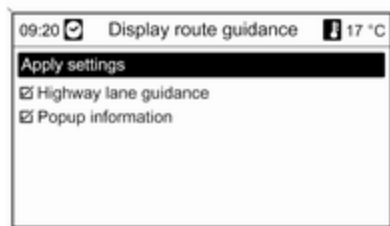


If desired select one or several of the following options in the **Route criteria** menu:

- **Avoid freeways**
- **Avoid toll roads**
- **Avoid tunnels**
- **Avoid ferries**
- **Consider time restricted roads**

Display route guidance

The following options are available for the display of route guidance:



Using the **Highway lane guidance** option, you can determine which type of illustration should be displayed when reaching a highway intersection.

If **Highway lane guidance** is deactivated the following type of illustration will be displayed:



If **Highway lane guidance** is activated the following type of illustration will be displayed:

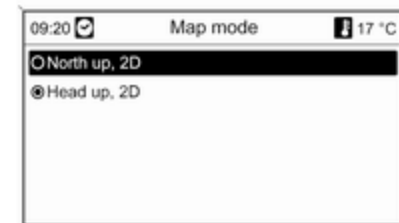


Using the **Popup information** option, you can select whether route guidance information from the navigation should be displayed in pop-up windows in other operating modes (e.g. radio). The information is hidden after a set time or by pressing the **BACK** button.

Select **Apply settings** to activate the displayed settings and to return to the **Navigation options** menu.

Map options

Select **Map options** and then **Map mode** to display the following submenu:



Select between map orientation north up and head up on the map display.

Select **Map options** and then **Show POIs on map** to open a submenu with various options to define whether and which points of interest should be displayed on the map.

When **User defined** is selected the type of points of interest can be defined that should be displayed, e.g. restaurant, hotel, public places, etc.

Display of arrival time or driving time

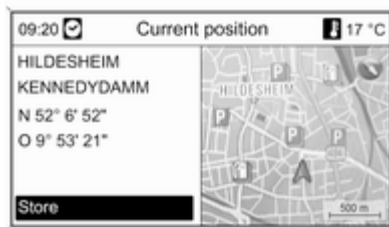
After selecting the option **Indication estimated driving time** or **Indication estimated arrival time** in the menu **Navigation options**, the corresponding time is shown in the top line on the route guidance screen.

Current position information

The following information on the current position is displayed:

- City
- Street name
- Latitude

- Longitude
- Map display

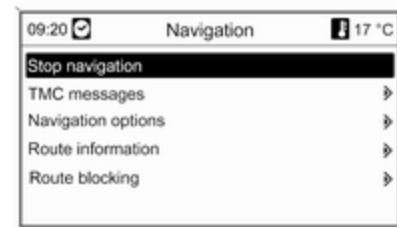


The current position can be copied to the address book or myPOIs memory using **Store**, see "Storing an address in the address book or myPOIs memory" in chapter "Destination input" above.

Destination information

Displayed information: same as on the display for **Current position**.

Functions for active route guidance



Stop navigation

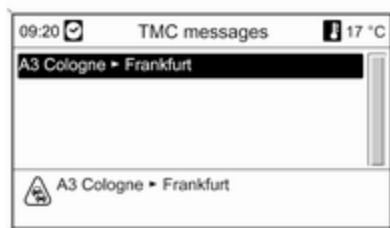
After selecting **Stop navigation**, the route guidance is deactivated and the menu options for route guidance inactive are displayed, see "Functions with route guidance inactive" above.

TMC messages

Information on TMC, see chapter "Dynamic guidance" ↗ 34.

After selecting **TMC messages** the **Filtering** menu is displayed.

Select whether **All traffic messages** or only **Traffic messages along route** should be displayed in the **TMC messages** list, see below.



Navigation options

Description, see "Functions with route guidance inactive" above.

Route information

The following information can be accessed on the **Route information** menu:

- **Route list**
- **Current position information**

- **Destination information**
 - **Overview current route**
- Route list**



All streets on the calculated route are listed with the related distances.

Route list items marked with a "+" symbol can be expanded by selecting the related list item. After selection, further details on the related list item are displayed.

Current position information

Description, see "Functions with route guidance inactive" above.

Destination information

Description, see "Functions with route guidance inactive" above.

Overview current route

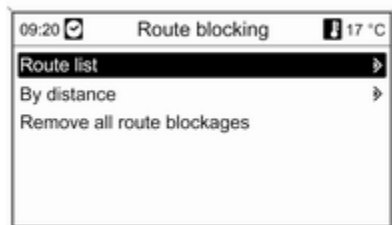
The following information on the current route is displayed:



- **Position**
- **Destination**
- **Arrival time**
- **Distance**
- **Map display**

Route blocking

The following options are available to manually exclude certain areas/route sections from the route guidance:



Route list

In the list of street names on the currently calculated route, streets can be excluded from the route guidance.



To exclude a street from the route guidance:

Mark the regarding street name and press the multifunction knob. The street name is displayed crossed-out.

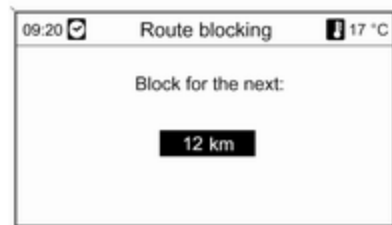
If desired, exclude further streets from the route guidance.

Select **Apply settings** and confirm the displayed message.

The route is re-calculated, taking into account the excluded streets.

By distance

By setting a distance the section of route from the current position to the set distance can be excluded from the route guidance.



Set the desired distance, press the multifunction knob and then confirm the displayed message.

The route is re-calculated taking into account the excluded route section.

Notice

The route blocking entered remains active until a new route calculation is performed.

Remove all route blockages

After selecting this option, all areas/ route sections previously selected as to be excluded from the route guidance will be taken into account again for route guidance.

Dynamic guidance

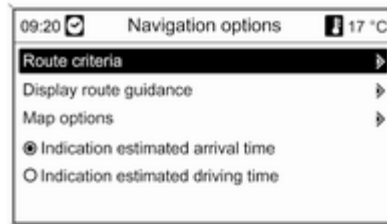
If dynamic route guidance is active, the entire current traffic situation that the Infotainment system receives via TMC is included in the calculation of the route. The route is suggested taking into account all traffic problems or restrictions as per pre-set criteria (e.g. "shortest route", "avoid freeways" etc.).

In the case of a traffic problem (e.g. traffic jam, closed road) on the route driven, a message is displayed and a voice message output indicating the nature of the problem. The driver can decide whether to drive around the traffic problem taking the suggested change to the route or to carry on through the traffic problem.

Nearby traffic problems are also reported if route guidance is not active.

If route guidance is active, the system continuously checks, based on the traffic information, whether it would be better to recalculate the route or take an alternative route taking into account the current traffic situation.

The activation and deactivation of dynamic route guidance, as well as criteria for the calculation of the route and other settings for navigation, are made in the **Navigation options** menu, see chapter "Guidance" ↪ 58.



Dynamic route guidance only works if traffic information is received via the RDS-TMC traffic information system.

The possible delay due to a traffic problem calculated by the Infotainment system is based on data that the system receives via the RDS-TMC station currently set. The actual delay may be different to that calculated.

Maps

All map data required for use of the navigation system is stored on an SD card provided with the Infotainment system.

Map SD card

The SD card reader of the Infotainment system can only read the SD card provided specifically for use with the vehicle's navigation system. The SD card reader cannot read any other SD cards.

Due to production date of the map data on the SD card, some new roads may not be included, or some names

and roads may differ from those in use at the time the map data was produced.

To order additional SD cards or an update of the map data, contact a Vauxhall Authorised Repairer.

Replacing a map SD card, see below .

Important information on SD card handling

Caution

Never attempt to use an SD card that has been cracked, deformed or repaired using adhesive tape. Doing so may damage the equipment.

- Handle the SD card with care. Never touch the metal contacts.
- Do not use any conventional cleaner, benzine, thinner, or antistatic spray.
- If you need to clean the SD card, use a soft cloth.

- Do not bend the SD card. Do not use any SD card that is bent or cracked.
- Do not put any sticker or write anything on either surface.
- Do not store the SD card in locations exposed to direct sunlight, or in high temperatures or humidity.
- Always place the SD card in its storage case, when not in use.

Replacing a map SD card

The SD card slot is located in the centre console in front of the gearshift.

Removing the SD card



Press on the inserted SD card to unlock it, and then carefully pull the SD card out of the SD card slot.

Inserting the SD card



Push the SD card with the cut-out edge on the left side (see image above) carefully into the SD card slot until the card engages.

Notice

The SD card and SD card slot must always be kept clean and dry.

Symbols overview



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32

No. Explanation

- 1 Current position (map)
- 2 Destination
- 3 Current position (route list)
- 4 not available
- 5 not available
- 6 Fog
- 7 Road works
- 8 Slippery road
- 9 Smog
- 10 Snow
- 11 Storm
- 12 Caution/warning
- 13 Closed road
- 14 Dense traffic
- 15 Traffic jam
- 16 Narrow lanes
- 17 Open list

No. Explanation

- 18 Closed list
- 19 Shopping centre
- 20 Toll road
- 21 Tourist information
- 22 Sight
- 23 Sport & leisure
- 24 Going out
- 25 Museum
- 26 Car rental
- 27 Travel information
- 28 Leisure activity
- 29 Provision of services
- 30 Cash machine
- 31 Bus station
- 32 Camp site



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No.	Explanation
33	Chemist
34	Cinema
35	Airport
36	Amusement park
37	City
38	Bank
39	Traffic message
40	Ferry
41	Border
42	Tunnel
43	Kiosk
44	Grocery
45	Hotel/motel
46	Motorway exit
47	Car park
48	Park & ride
49	Multi-storey car park

No.	Explanation
50	Petrol station
51	Service area
52	Restaurant
53	WC
54	Historical monument
55	Hospital
56	Emergency
57	Police
58	Harbour
59	Mountain pass
60	Public place
61	Related to the car
62	Garage
63	Cemetery

Speech recognition

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General information

The speech recognition of the Infotainment system enables you to operate various functions of the phone portal via voice input. It recognises commands and numeric sequences independently of the relevant speaker. The commands and numeric sequences can be spoken without a voice pause between the individual words.

You can also save telephone numbers assigning a name of your choice (voice tag). Using these names, you can later set up a telephone connection.


In the event of incorrect operation or commands the speech recognition gives you acoustic feedback and requests you to re-enter the desired command. Apart from this, the speech recognition acknowledges important commands and will enquire if necessary.

To ensure that conversations inside the vehicle do not lead to unintentional triggering of system

functions, the speech recognition does not start until it has been activated.


Important notes on language support

- Not all languages available for the display of the Infotainment system are also available for the speech recognition.
- If the currently selected language for the display is not supported by the speech recognition, you need to enter the voice commands in English.

To be able to enter voice commands in English, you first need to activate the phone main menu by pressing the **PHONE** button on the Infotainment system, and then activate the speech recognition of the phone portal by pressing the button  on the steering wheel.

Phone control

Activating speech recognition


To activate the speech recognition of the Phone portal, press the button  on the steering wheel. For the duration of the dialogue any active audio source is muted and any traffic news fade-in is cancelled.

Adjusting the volume for voice output

Turn the volume knob on the Infotainment system, or press the + or – button on the steering wheel.

Cancelling a dialogue

There are various possibilities of deactivating the speech recognition and cancelling the dialogue:

- Press the button  on the steering wheel.
- Say "Cancel".
- Do not enter (say) any commands for some time.
- After the third unrecognised command.

Operation

With the aid of the speech recognition the mobile phone can be operated very conveniently via voice input. It is sufficient to activate the speech recognition and to enter (say) the desired command. After input of the command the Infotainment system guides you through the dialogue with appropriate questions and feedback to achieve the desired action.

Main commands

After activation of the speech recognition a short tone signals that the speech recognition is expecting input.

Main commands available:

- "Dial"
- "Call"
- "Redialing"
- "Save"
- "Delete"
- "Directory"
- "Pair"

- "Select device"
- "Voice feedback"

Commands that are frequently available

- "Help": the dialogue is terminated and all commands available within the actual function are enumerated.
- "Cancel": the speech recognition is deactivated.
- "Yes": a suitable action is triggered depending on the context.
- "No": a suitable action is triggered depending on the context.

Entering a telephone number

After the command "Dial" the speech recognition requests input of a number.

The telephone number must be spoken in your normal voice without any artificial pauses between the individual numbers.

Recognition works best, if a pause of at least half a second is made after every three to five digits. The Infotainment system then repeats the numbers recognised.

You can then enter further numbers or the following commands:

- **"Dial"**: the inputs are accepted.
- **"Delete"**: the number last entered or the block of numbers last entered is deleted.
- **"Plus"**: a preceding "+" is entered for a call abroad.
- **"Verify"**: the inputs are repeated by the voice output.
- **"Asterisk"**: An asterisk "*" is entered.
- **"Hash"**: A hash "#" is entered.
- **"Help"**
- **"Cancel"**

The maximum length of the telephone number entered is 25 digits.

To be able to make a call abroad you can say the word "Plus" (+) at the beginning of your number. The plus allows you to call from any country without knowing the prefix for calls made abroad in that country. Then say the required country code.

Example of a dialogue

User: "Dial"

Voice output: **"Please, say the number to dial"**

User: **"Plus Four Nine"**

Voice output: **"Plus Four Nine"**

User: **"Seven Three One"**

Voice output: **"Seven Three One"**

User: **"One One Nine Nine"**

Voice output: **"One One Nine Nine"**

User: **"Dial"**

Voice output: **"The number is being dialled"**

Entering a name

Using the **"Call"** command a telephone number is entered that has been stored in the telephone book under a name (voice tag).

Commands available:

- **"Yes"**
- **"No"**
- **"Help"**
- **"Cancel"**

Example of a dialogue

User: "Call"

Voice output: **"Please, say the nametag to call"**

User: <Name>

Voice output: **"Do you want to call <Michael>?"**

User: **"Yes"**

Voice output: **"The number is being dialled"**

Starting a second call

A second call can be started during an active telephone call. To do so, press the button ⓧ .

Commands available:

- **"Send"**: activate manual DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- **"Send nametag"**: activate DTMF (touch-tone dialling) by entering a name (voice tag).
- **"Dial"**
- **"Call"**
- **"Redialing"**
- **"Help"**
- **"Cancel"**

Example of a dialogue

User: <if a telephone call is active:
press the  button>

User: **"Send"**

Voice output: **"Please, say the number to send."**

(for number input see the dialogue example for **Entering a telephone number**)

User: **"Send"**

Redialing

The number last dialled is redialled with the command **"Redialing"**.

Saving

With the command **"Save"** a telephone number is stored in the telephone book under a name (voice tag).

The name entered must be repeated once. The pitch and pronunciation must be as identical as possible for both name inputs, otherwise the speech recognition will reject the inputs.

A maximum of 50 voice tags can be stored in the telephone book.

Voice tags are speaker-dependent, i.e. only the person who recorded a voice tag can open it.

To avoid the start of the recording of a saved name from being cut-off, a short pause should be left after an input request.

To be able to use the voice tag independently of the location, i.e. including other countries, all telephone numbers should be entered with a "plus" character and a country code.

Commands available:

- **"Save"**: the inputs are accepted.
- **"Verify"**: the last input is repeated.
- **"Help"**
- **"Cancel"**

Example of a dialogue

User: **"Save"**

Voice output: **"Please, say the number to save"**

(for number input see the dialogue example for **Entering a telephone number**)

User: **"Save"**

Voice output: **"Please, say the nametag to save"**

User: <Name>

Voice output: **"Please, repeat the nametag to confirm"**

User: <Name>

Voice output: **"Saving the nametag"**

Deleting

A previously saved voice tag is deleted with the command **"Delete"**.

Commands available:

- **"Yes"**
- **"No"**
- **"Help"**
- **"Cancel"**

Listening to stored names

The voice output of all stored names (voice tags) is started with the command **"Directory"**.

Commands available during voice output of the voice tags:

- **"Call"**: the telephone number of the voice tag last read aloud is selected.
- **"Delete"**: the entry of the voice tag last read aloud is deleted.

Saving a mobile phone to or deleting it from the device list

With the command **"Pair"** a mobile phone can be saved to or deleted from the device list of the Phone portal ↗ 78.

Commands available:

- **"Add"**
- **"Delete"**
- **"Help"**
- **"Cancel"**

Example of a dialogue

User: **"Pair"**

Voice output: **"Do you want to add or delete a device?"**

User: **"Add"**

Voice output: **"Using the pair function in the external device, enter <1234> to pair."**

Voice output: **"Do you want to pair the device?"**

User: **"Yes"**

Voice output: **"The device is connected as the number <device_number>"**

Selecting a mobile phone from the device list

Using the **"Select device"** command, a mobile phone can be selected in the device list for setting up a Bluetooth connection.

Example of a dialogue

User: **"Select device"**

Voice output: **"Please, say a device number to select"**

User: **<device_number>**

Voice output: **"Do you want to select the device number <device_number>?"**

User: **"Yes"**

Voice output: **"Do you want to pair the device?"**

User: **"Yes"**

Voice output: **"One moment. The system searches for the selected device"**

Voice output: **"Device number <dev_num> is selected"**

Voice feedback

Each voice input is answered or commented on by the Infotainment system by way of a voice output that is adapted to the situation.

To switch the voice output on or off, enter **"Voice feedback"** or press the button ⌘.

Phone

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General information

The Phone portal provides you with the possibility of having mobile phone conversations via a vehicle microphone and the vehicle loudspeakers as well as operating the most important mobile phone functions via the Infotainment system in the vehicle. To be able to use the Phone portal, the mobile phone has to be connected with it via Bluetooth.

The Phone portal can be operated optionally via the speech recognition system.

Not all Phone portal functions are supported by every mobile phone. The possible phone functions depend on the relevant mobile phone and network provider. You will find further information on this in the operating instructions for your mobile phone or you can enquire about them with your network provider.

Important information for operation and traffic safety

Warning

Mobile phones have effects on your environment. For this reason safety regulations and directions have been prepared. You should be familiar with the related directions before you use the telephone function.

Warning

Use of the hands-free facility while driving can be dangerous because your concentration is reduced when telephoning. Park your vehicle before you use the hands-free facility. Follow the stipulations of the country in which you find yourself at present.

Do not forget to follow the special regulations that apply in specific areas and always switch off the mobile phone if the use of mobile

phones is prohibited, if interference is caused by the mobile phone or if dangerous situations can occur.

Bluetooth

The Phone portal supports Bluetooth Handsfree Profile V. 1.5 and is specified in accordance with the Bluetooth Special Interest Group (SIG).

You will find further information about the specification on the Internet at <http://www.bluetooth.com>. Additionally, the Phone portal supports SIM Access Profile (SAP).

EU R & TTE Compliance

CE 0700

Hereby, we declare that the **Bluetooth System Transceiver** is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Operating the speech recognition

Do not use the speech recognition in emergencies, because in stress situations your voice can change so much that it can no longer be recognised sufficiently to set up the desired connection quickly enough.

Control elements

The most important telephone specific control elements are as follows:

PHONE button: opens the telephone main menu.

Controls on steering wheel:

☎, 🗑: take call, activate speech recognition.

📞, ✖: end/reject call, deactivate speech recognition.

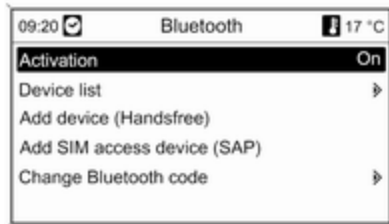
The Phone portal can be operated optionally via speech recognition ☞ 72.

Bluetooth connection

Bluetooth is a radio standard for the wireless connection of, for example, a telephone with other devices. Information such as a telephone book, call lists, the network operator's name and field strength can be transferred. The functionality can be restricted depending on the telephone type.

To be able to set up a Bluetooth connection with the Phone portal, the Bluetooth function of the mobile phone has to be activated and the mobile phone must be set to "visible". For further information please refer to the operating instructions for the mobile phone.

Bluetooth menu



Press **CONFIG** button.

Select **Phone settings** and then **Bluetooth**.

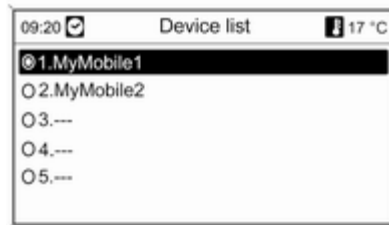
Activating Bluetooth

If the Bluetooth function of the Phone portal is deactivated:

Set **Activation** to **On** and confirm the subsequent message.

Device list

When a mobile phone is connected to the Phone portal via Bluetooth for the first time, the mobile phone is saved in the device list.



A maximum of 5 mobile phones can be saved in the device list.

Connecting a mobile phone for the first time

There are two options for connecting a mobile phone to the Phone portal: by adding it as a handsfree device or by using the SIM Access Profile (SAP).

Handsfree mode

When the mobile phone is added as a handsfree device the user can make or receive calls and use other functions via the Phone portal. The range of functions available depends on the mobile phone. While it is connected with the Phone portal the mobile phone can be operated as usual.

Note that the mobile phone battery may discharge at a higher speed than usual due to the Bluetooth connection active along with normal operation of the mobile phone.

SAP mode

When using the SAP option, a wider range of functions is available via the Phone portal such as various security and messaging options. The actual

range of functions depends on the network provider. Additionally, in the SAP mode the mobile phone is in the standby mode. Only the Bluetooth connection and the SIM card are active, which leads to lower energy consumption of the connected mobile phone.

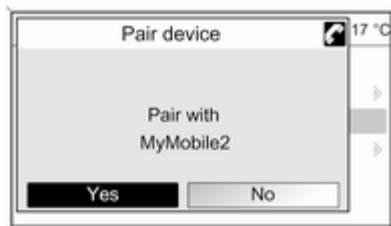
Connecting a mobile phone as a handsfree device



Select **Add device (Handsfree)**. The Bluetooth code to be entered into the mobile phone is displayed.

The Phone portal can now be detected by other Bluetooth devices.

As soon as the mobile phone has detected the Phone portal the Bluetooth code can be entered on the mobile phone.



As soon as the Phone portal has detected the mobile phone, the connection set-up can be confirmed.

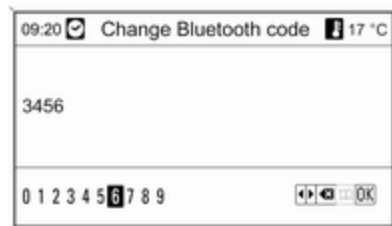
The mobile phone is adopted in the device list and can be operated via the Phone portal.

Changing the Bluetooth code

(only relevant for handsfree mode)

The first time a Bluetooth connection to the Phone portal is set up, a default code is displayed. This default code

can be changed at any time. For security reasons a four-digit and randomly selected code must be used for pairing devices.



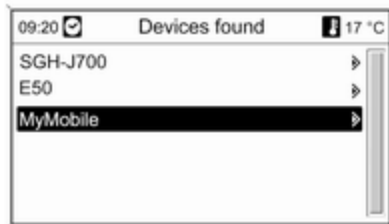
Select **Change Bluetooth code**. On the menu displayed, edit the actual Bluetooth code and accept the modified code using **OK**.

Connecting a mobile phone via SIM Access Profile (SAP)

Select **Add SIM access device (SAP)**. The mobile portal scans for available devices and displays a list of devices found.

Notice

The mobile phone must have Bluetooth activated and be set to visible.

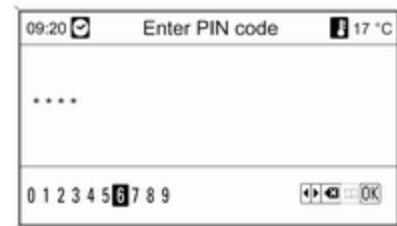


Select the desired mobile phone from the list. The SAP passcode prompt is shown on the Infotainment display containing a 16-digit code.



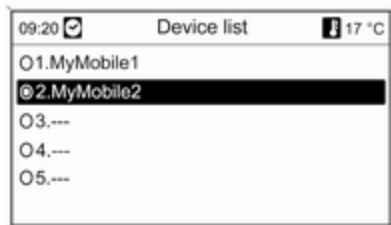
Enter the displayed SAP passcode in the mobile phone (without spaces). The mobile phone PIN code is shown on the Infotainment display.

If the **PIN request** function is active, the user will have to enter the PIN code of the SIM card in the mobile phone.



Enter the PIN code of the mobile phone SIM. The mobile phone is paired with the Phone portal. Services of the mobile network provider can be used via the Phone portal.

Connecting a mobile phone saved in the device list



Select the desired mobile phone and then select the option **Select** in the menu displayed.

As soon as the Phone portal has detected the mobile phone, the connection setup can be confirmed.

The mobile phone can be operated via the Phone portal.

Removing a mobile phone from the device list

Select the desired mobile phone from the device list. In the menu displayed select **Delete** and confirm the subsequent message.

Adjusting the ring tone

To change the ring tone characteristic:

Press **CONFIG** button.

Select **Phone settings** and then **Ringtone**.

Select the desired option.

To change the ring tone volume:

While the phone rings turn the \odot knob of the Infotainment system or press the buttons **+/-** on the steering wheel.

Setting up a connected phone

Various mobile phone settings can be configured in the **Phone settings** menu, if the phone is connected via SAP.

Changing security settings

Press **CONFIG** button.

Select **Phone settings** and then **Security**.

The security dialogue is displayed.

Activating/Deactivating PIN request

Select **PIN request On** or **Off**.

Enter the PIN code of the mobile phone SIM card and confirm.

Notice

This option depends on the individual network provider.

Changing the PIN code

Select **Change PIN**.

Enter the current PIN code. Enter the new PIN code. Repeat the new PIN code and confirm. The PIN has been changed.

Configuring network services

Select **Phone settings** and then **Network services**. The Network services dialogue is displayed.

Depending on the network provider and the mobile phone several options are available.

- **Network selection:** choose between automatic or manual network selection.
- **Call waiting:** activate or deactivate call waiting.
- **Call diverting:** select diverting options depending on the situation.
- **Call barring:** configure call barring options depending on the situation.

For details on network services configuration refer to the mobile phone manual or enquire with the mobile network provider.

Configuring SMS centre number

The SMS centre number is a phone number that acts as a gateway for transferring SMS messages between mobile phones. This number is usually preset by the network provider.

To configure the SMS centre number select **Phone settings** and then **SMS center number**. If required, modify the SMS centre number.

Resetting the mobile phone to factory settings

Select **Phone settings** and then **Factory settings**.

Emergency call

Warning

Connection setup cannot be guaranteed in all situations. For this reason you should not rely exclusively on a mobile phone when a vitally important communication (e. g. a medical emergency) is concerned.

In some networks it may be necessary for a valid SIM card to be properly inserted in the mobile phone.

Warning

Bear in mind that you can make and receive calls with the mobile phone, if it is in a service area with a sufficiently strong signal. Under

certain circumstances emergency calls cannot be made on all mobile phone networks; it is possible that they cannot be made when certain network services and/or telephone functions are active. You can enquire about this with the local network operators.

The emergency call number can differ depending on the region and country. Please enquire beforehand about the correct emergency call number for the relevant region.

Making an emergency call

Dial the emergency call number (e.g. **112**).

The telephone connection to the emergency call centre is set up.

Answer when the service personnel questions you about the emergency.

⚠ Warning

Do not end the call until you are requested to do so by the emergency call centre.

Operation

Introduction

As soon as a connection via Bluetooth has been set up between your mobile phone and the Infotainment system, you can also operate many functions of your mobile phone via the Infotainment system.

Via the Infotainment system, you can, e.g., set up a connection to the telephone numbers stored in your mobile phone or change the telephone numbers.

Notice

In the handsfree mode mobile phone operation continues to be possible, e. g. taking a call or adjusting the volume.

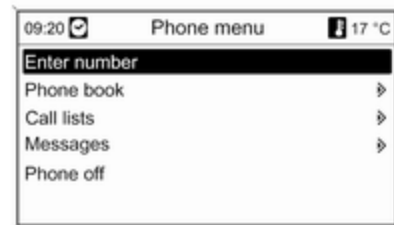
After setup of a connection between the mobile phone and the Infotainment system the mobile phone data is transmitted to the Infotainment system. This can take some time depending on the phone model. During this period operation of the mobile phone is possible via the Infotainment system only to a limited extent.

Not every telephone supports all functions of the Phone portal. Therefore deviations from the range of functions described with these specific telephones are possible.

Setting the volume for hands-free facility

Turn the \odot knob of the Infotainment system or press the buttons $+$ / $-$ on the steering wheel.

Dialling a telephone number

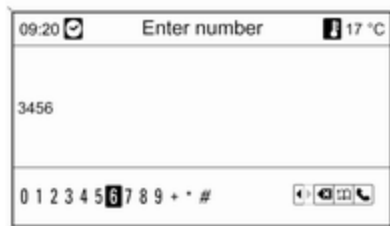


With the telephone main menu active, press the multifunction knob to open the **Phone menu**.

Several options for dialling telephone numbers, for using the phone book and call lists, for viewing and editing messages are available.


Using the **Phone off** command the connected phone can be detached from the Phone portal.

Entering a number manually



Select **Enter number**, then enter the desired number sequence.

To start the dialling process, select .

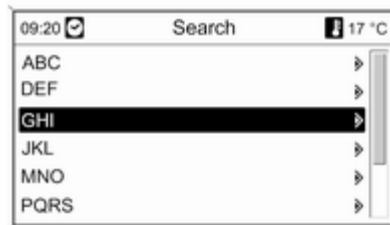
To open the telephone book menu, select .

Telephone book

After setting up the connection the telephone book is compared with the telephone book in the temporary memory, provided that the same SIM card or same telephone is concerned. During this period any newly added entries are not displayed.

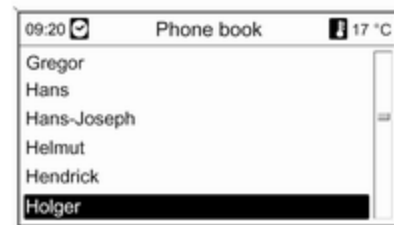
If the SIM card or telephone are different, the telephone book is reloaded. This process can take a few minutes depending on the phone model.

Selecting a telephone number from the telephone book



Select **Phone book**.

On the **Search** menu displayed, select the desired first letter range to start a preselection of the telephone book entries that you want to have displayed.



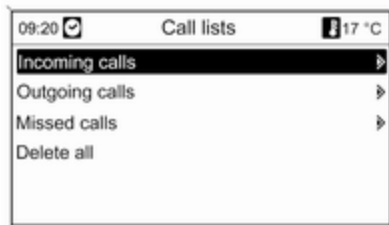
Notice

Telephone book entries are carried over as they are transferred from the mobile phone. The presentation and order of the telephone book entries may be different on the Infotainment system's display and the mobile phone's display.

After having performed the preselection: select the desired entry in the telephone book to display the numbers saved under this entry.

Select the desired number to start the dialling process.

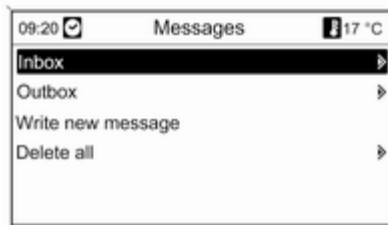
Call lists



Via the menu **Call lists** the incoming, outgoing and missed calls can be viewed and the relevant numbers can be dialled. The lists can also be deleted in this menu.

To start a dialling process: select the desired call list, an entry in the call list and finally the desired telephone number.

Messaging functions



When the mobile phone is paired using the SAP mode, messages can be viewed, composed and sent via the Phone portal. The messages can also be deleted in this menu.

To view received messages: select **Inbox**.

To view sent messages: select **Outbox**.

To compose a message: select **Write new message**.

Notice

Messages are limited to 70 characters.

Incoming call

When there is an incoming call a menu is displayed for you to accept or decline the telephone call.

Select the required option.

Functions during a telephone call

If you are currently making a telephone call, press the multifunction knob to open a submenu.

Various options are available depending on the situation and range of functions of the mobile phone:

- **Hang up:** disconnect the telephone connection.
- **Call number:** enter a telephone number to make a second telephone call or perform DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- **Detach call:** detach the connection to a conference participant in a telephone conference.
- **Merge calls:** merge two calls when there are several active calls.

- **Switch calls:** switch between calls, if there are several calls.
- **Mute call:** mute a call.

Notice

If the ignition is turned off during a telephone call the connection remains active until the telephone call is terminated.

Mobile phones and CB radio equipment

Installation instructions and operating guidelines

The vehicle specific installation instructions and the operating guidelines of the mobile phone and handsfree manufacturer must be observed when installing and operating a mobile telephone. Failure to do so could invalidate the vehicle type approval (EU directive 95/54/EC).

Recommendations for fault-free operation:

- Professionally installed exterior antenna to obtain the maximum range possible,
- Maximum transmission power 10 watts,
- Installation of the phone in a suitable spot, consider relevant Note in the Owner's manual, chapter **Airbag system**.

Seek advice on predetermined installation points for the external antenna or equipment holder and ways of using devices with a transmission power exceeding 10 watts.

Use of a handsfree attachment without external antenna with mobile telephone standards GSM 900/1800/1900 and UMTS is only permitted if the maximum transmission power of the mobile telephone is 2 watts for GSM 900 or 1 watt for the other types.

For reasons of safety, do not use the phone while driving. Even use of a handsfree set can be a distraction while driving.

Warning

Operation of radio equipment and mobile telephones which fail to meet above mentioned mobile telephone standards is only permitted using an antenna located outside of the vehicle.

Caution

Mobile telephones and radio equipment may lead to malfunctions in the vehicle electronics when operated inside the vehicle with no exterior antenna, unless the above mentioned regulations are observed.

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June 2012



CD 400

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Introduction

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General information

The Infotainment system provides infotainment in your vehicle, using the latest technology.

The radio can easily be used by registering up to 36 FM, AM and DAB (Digital Audio Broadcasting) radio stations with the **1 ~ 6** preset buttons per every six pages. DAB is only available for Type A and Type D models.

The integrated CD player can play audio CD and MP3 (WMA) discs, and the USB player can play connected USB storage devices or iPod products. The USB player is only available for Type A and Type B models.

The Bluetooth phone connection function allows for the use of wireless handsfree phone calls, as well as a phone music player. The Bluetooth phone connection function is only available for Type A and Type B models.

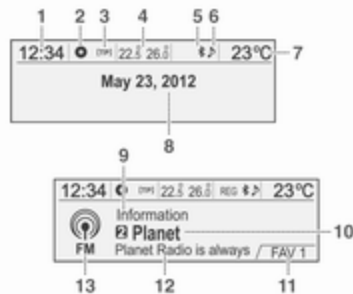
Connect a portable music player to the exterior sound input and enjoy the rich sound of the Infotainment system. The AUX function is only available for Type A and Type B models.

The digital sound processor provides a number of preset equaliser modes for sound optimisation.

The system can be easily adjusted with the carefully designed adjusting device, smart displayer, and multifunctional menu dial regulator.

- The "Overview" section provides a simple overview of the Infotainment system's functions and a summary of all regulatory devices.
- The "Operation" section explains the basic controls of the Infotainment system.

Screen display



Start-up screen

- (1) Clock
- (2) Disc loaded
- (3) RDS service
- (4) Inside air temperature (driver/passenger)
- (5) Bluetooth connected
- (6) Bluetooth music
- (7) Outside air temperature
- (8) Date

Radio screen

- (9) Category

(10) Station name

(11) Favourites page

(12) Stations list

(13) Band



CD/MP3 screen

- (1) Playing time
- (2) Folder/track
- (3) Song title
- (4) Artist
- (5) Disc type

Settings screen

- (6) Settings title
- (7) Selection bar



(8) List indicator bar

(9) Menu

The screen display may differ from the manual display since most screen displays differ according to the device's setup and vehicle specification.

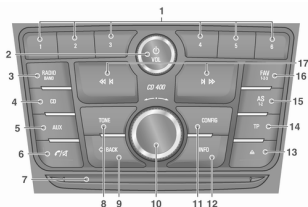
Theft-deterrent feature

The Infotainment system has an electronic security system installed to prevent theft.

The Infotainment system therefore functions only in your vehicle and is worthless to a thief.

Control elements overview

Overview



Type A: Radio/DAB + CD/MP3 + AUX + USB/iPod + Bluetooth

Type B: Radio + CD/MP3 + AUX + USB/iPod + Bluetooth

Type C: Radio + CD/MP3

Type D: Radio/DAB + CD/MP3

1. 1 ~ 6 preset buttons

- ◆ Hold down any of these buttons to add the current radio station to the current favourites page.
- ◆ Press any of these buttons to select the channel linked to that button.

2. button with **VOL** control knob

- ◆ Press this button to turn the power on and off.
- ◆ Turn the control knob to adjust the overall volume.

3. **RADIO/BAND** button

Select the FM, AM band radio or DAB function.

4. **CD** button

Press this button to select the CD/MP3 disc play function.

5. **AUX** button

Press this button to select the AUX/USB/iPod/Bluetooth audio function.

6. button

- ◆ Press this button to activate the Bluetooth mode.
- ◆ Hold down this button to turn the mute/pause function for CD and USB/iPod on and off.

7. Disc slot

This is the slot in which compact discs are inserted or taken out.

8. **TONE** button

Press this button to adjust/select the sound setup mode.

9. **BACK** button

Cancel the input content or return to the previous menu.

10. Multifunction knob

- ◆ Press the button to display the currently functioning menu or select the setup content and setup values.
- ◆ Turn the control knob to move/change the setup content and setup values.

- ◆ In the Bluetooth handsfree mode, take a call by pressing the button. You can turn the control knob to answer or reject the call, and then press the button to confirm.

11. **CONFIG** button

Press this button to enter the system setup menu.

12. INFO button

- ◆ Press this button to view the file information when using the CD/MP3 and USB/iPod play modes.
- ◆ View information about a radio station and the currently playing song when using the radio function.

13. ▲ button

Press this button and take out the disc.

14. TP button

While using the FM RDS function, turn the **TP** (Traffic Programme) function on or off.

15. AS 1-2 button

- ◆ Hold down this button to automatically store the radio stations to the AS station page 1 or 2.
- ◆ Press this button to select the AS station pages 1 or 2.

16. FAV 1-2-3 button

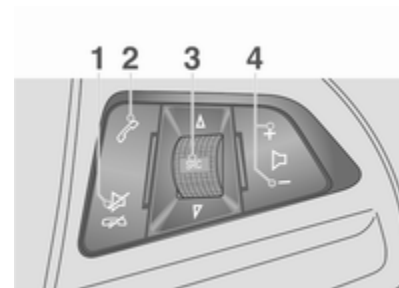
Press this button to select the page of saved favourite files.

17. ◀◀ / ▶▶ buttons

- ◆ Press these buttons when using radio or DAB to automatically seek stations with clear reception. You can manually set the broadcasting frequency by holding down these buttons.
- ◆ Press these buttons while using the CD/MP3 and USB/iPod play modes to instantly play the previous or next track.
- ◆ You can hold down these buttons to quickly rewind/fast forward through the currently playing songs.

Steering wheel audio controls

Steering wheel audio control Type 1: option



1. 🚫🔊 button



Press this button in any music play mode to turn the mute function on and off. In engaged mode you can press this button to reject calls or to finish the call.

2.  button

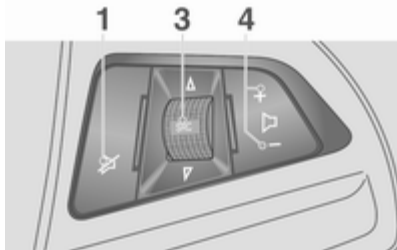
- ◆ Press this button to answer the call or enter the redial mode.
- ◆ Hold down this button to enter the dialled call log or to move back and forth from hands-free mode and private call mode during a call.

3.  SRC  button

- ◆ Press this button to select a sound play mode.
- ◆ Turn the control to change the registered radio station or change the music being played.

4. +  -  buttons

- ◆ Press the + button to increase the volume.
- ◆ Press the - button to decrease the volume.

Steering wheel audio control Type 2: option1.  button

Press this button to turn the mute function on and off.

2. Not available.

3.  SRC  button

- ◆ Press this button to select a sound play mode.
- ◆ Turn the control to change the registered radio station or change the music being played.

4. +  -  button

- ◆ Press the + button to increase the volume.
- ◆ Press the - button to decrease the volume.

Operation

Buttons and control devices


The Infotainment system is operated by using the function buttons, multifunction knob, and the menu indicated on the screen display.

The buttons and controls used in the system are the following:


- The Infotainment system buttons and control knob
- The steering wheel remote control buttons

System on and off




Press the  button to turn the system on.

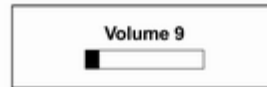
Once the power is turned on, the previously used function will be executed after time, date, temperature, and function are ready.

Press the  button to turn the system off.

Turning off automatically

If you turn on the Infotainment system using the  button while the ignition switch (vehicle ignition key) is in the off position, the Infotainment system will automatically be turned off 10 minutes after the last user input.

Volume control



Turn the **VOL** control knob to adjust the volume.

- Using the steering wheel remote control, press the + and - buttons to adjust the volume.
- The current sound volume is indicated.
- Turning on the Infotainment system power will set the volume level to its previous selection (when it is less than the maximum startup volume).
- When turning on the power, the maximum startup volume value can be separately set (when the previous volume level is less than the maximum starting volume).

Auto volume control

Once the speed-compensating sound volume setup starts operating, the volume will automatically be controlled according to the vehicle's speed to offset the noise from the engine and tyres. (Refer to **Settings** → **Radio settings** → **Auto volume control**).

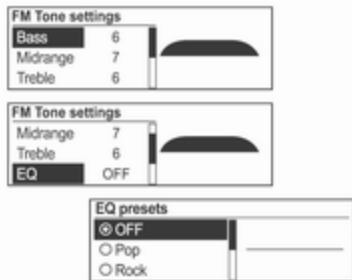
Volume limit at high temperatures

If the inside temperature of the radio is very high, the Infotainment system will limit the controllable maximum volume.

If necessary, the volume will automatically decrease.

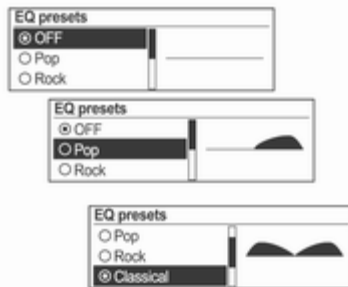
Tone settings

From **Tone settings**, sound features can be setup differently according to the FM, AM or DAB radio and each audio player's functions.



Press the **TONE** button when using the relevant functioning mode.

Turn the multifunction knob to select the desired tone control mode, and then press the multifunction knob.



Turn the multifunction knob to select the desired tone control value, and then press the multifunction knob.

Tone settings menu

- **Bass:** Adjust the bass level from -12 to +12.
- **Midrange:** Adjust the midrange level from -12 to +12.

- **Treble:** Adjust the treble level from -12 to +12.
- **EQ (Equaliser):** Select or turn off the sound style (**OFF** ↔ **Pop** ↔ **Rock** ↔ **Classical** ↔ **Talk** ↔ **Country**).
- **Fader:** Adjust the front/rear speaker balance from front 15 to rear 15 in the six speaker system vehicle model.
- **Balance:** Adjust the left/right speaker balance from left 15 to right 15.

Select a function

FM, AM or DAB radio



Press the **RADIO/BAND** button to select FM, AM or DAB radio.

Press the multifunction knob to open the **FM menu**, **AM menu** or **DAB menu** that includes options for selecting broadcast stations.

CD/MP3 disk player



- (1) Audio CD
- (2) Audio CD with text
- (3) MP3/WMA CD

Insert an audio CD or MP3 (WMA) disc to be played with the printed surface facing upwards in the disk slot. When a disc is already inserted, press the **CD** button to select the CD/MP3 player.

From the steering wheel remote control, press **Δ SRC ▽** to select the CD/MP3 player.



- (1) Audio CD
- (2) MP3/WMA CD

Press the multifunction knob to open the menu with options for the relevant function or the menu of the relevant device.

USB/iPod audio play or AUX input



Connect the USB/iPod with music files to be played to the USB connecting terminal or connect the audio output of the external audio equipment to be listened to the AUX input terminal.

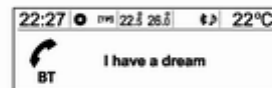
When the USB, iPod or AUX device is already inserted, repeatedly press the **AUX** button to select the desired function (**AUX** → **USB** → Bluetooth audio → **AUX** → ...)

From the steering wheel remote control, press **Δ SRC ∇** to select the desired mode.



Press the multifunction knob to open the menu with options for the relevant function or the menu of the relevant device.

Bluetooth handsfree phone device



Press the **📞/📶** button to select the Bluetooth handsfree phone function. Press the multifunction knob to open the **Bluetooth** menu with options for the relevant function.

Personalisation

Main buttons and controls

The buttons and controls used in the **Settings** are the following.

(11) **CONFIG** button

Press this button to enter the **Settings** menu.

(10) Multifunction knob

- Turn the control knob to select the desired menu or setup item.
- Press the button to select/enter the detailed control screen provided by the current menu or setup item.

(9) ↶ **BACK** button

Cancel the input item or return to the previous screen or menu.

How to use the Settings menu for personalisation

- Setup menus and functions may differ according to the vehicle model.
- Reference: Table of information for the **Settings** menu below.

Example: Settings → Time Date → Set date: 23 Jan 2012

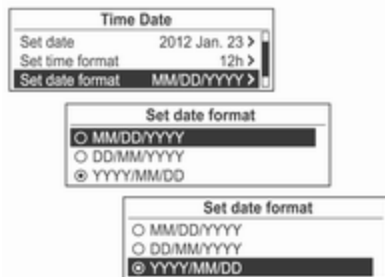


Press the **CONFIG** button for the **Settings** menu.

After referring to the table of information for the **Settings** menu below, turn the multifunction knob to move to the desired settings menu, and then press the multifunction knob.



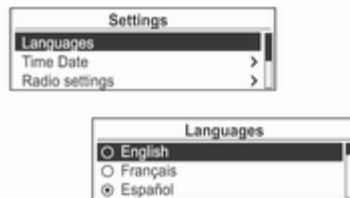
- Indicates the detailed list for the relevant settings menu or functioning state.
- If there is another detailed list from the relevant detailed list, you can repeat this action.



Turn the multifunction knob to attain the desired setup value or functioning state, and then press the multifunction knob.

- If the relevant detailed list is made of several items, then repeat this action.
- Set/enter the relevant setup value or the functioning state will change.

Table of information for Settings Languages



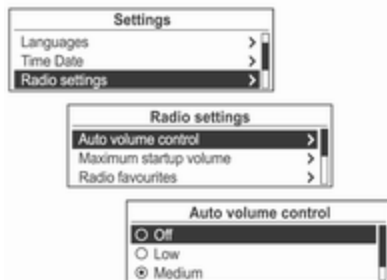
Select the desired language for the display.

Time Date



- **Set time:** Manually set the hours and minutes for the current time.
- **Set date:** Manually set the current year/month/date.
- **Set time format:** Select 12h or 24h time display.
- **Set date format:** Set the date display format.
 YYYY.MM.DD: 2012 Jan. 23
 DD/MM/YYYY: 23 Jan. 2012
 MM/DD/YYYY: Jan. 23, 2012
- **RDS clock synchronization:** Select On or Off.

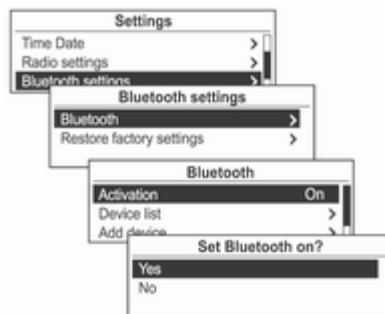
Radio settings



- **Auto volume control:** Set **Off/Low/Medium/High**.
- **Maximum startup volume:** Manually set the maximum limit for the startup volume.
- **Radio favourites:** Manually set the **Max. number of favourites pages**.
- **RDS options:** Set the RDS options.
 - **RDS:** Select **On** or **Off**.
 - **Regional:** Select **On** or **Off**.
 - **Text scroll freeze:** Select **On** or **Off**.
 - **Radio text:** Select **On** or **Off**.

- **TA volume:** Set the TA volume.
- **DAB settings:** Set the **DAB settings**.
 - **Auto ensemble linking:** Select **On** or **Off**.
 - **Auto linking DAB-FM:** Select **On** or **Off**.
 - **Dynamic audio adaption:** Select **On** or **Off**.
 - **Band selection:** Set **Both, L-Band** or **Band III**.

Bluetooth settings



- **Activation:** Select **On** or **Off**.
- **Device list:** Select the desired device and **Select, Disconnect** or **Delete**.
- **Pair device:** Try pairing a new Bluetooth device.
- **Change Bluetooth code:** Manually change/set the Bluetooth code.
- **Restore factory settings:** Restore the initial setup values back to the default settings.

Radio

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Usage

Before using FM, AM or DAB radio

Main buttons and controls

(3) **RADIO/BAND** button

Toggle between FM, AM or DAB band radio.

(10) Multifunction knob

- Turn this control knob to manually find a broadcasting frequency.
- Press this button to access the menu screen from the current mode.

(9) ◀ **BACK** button

Cancel the input item or return to the previous screen/menu.

(17) ◀◀ / ▶▶ buttons

- Press these buttons to automatically search for available radio stations.
- Press and hold these buttons to change the radio frequency as desired, and then let the button stop at the current frequency.

(16) **FAV 1-2-3** button

Press this button to move through the pages of saved favourite radio stations.

(1) **1 ~ 6** preset buttons

- Press and hold any of these preset buttons to register the current radio station to that button.
- Press this button to select the station registered to the preset button.

(15) **AS 1-2** button

- Press and hold this button to automatically store the radio stations to the AS station pages 1 or 2.
- Press this button to select the AS station pages 1 or 2.

(14) **TP** button

While using the FM RDS function, turn the **TP** (Traffic Programme) function **On** or **Off**.

(12) **INFO** button

View the information for the broadcasted radio stations.

(6) button

Press this button to turn the mute function on and off.

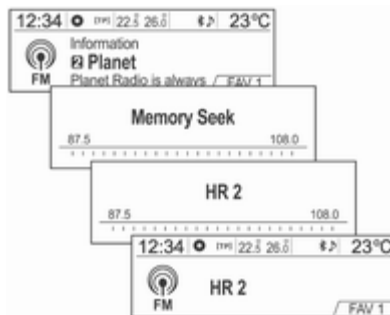
Listening to a radio or DAB station

Selecting the FM, AM or DAB mode



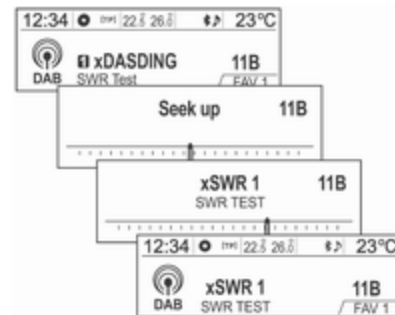
Repeatedly press the **RADIO/BAND** button to select FM, AM or DAB band. The previously chosen broadcasting station will be received.

Automatically searching for a radio station



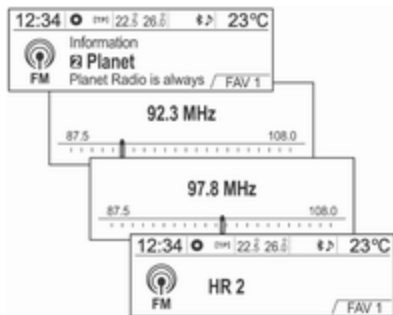
Press the ◀◀ / ▶▶ buttons to automatically search for available radio stations with good reception.

Automatically searching for the DAB service component



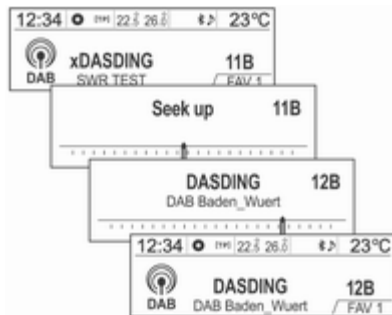
Press the ◀◀ / ▶▶ buttons to automatically seek for the available DAB service component in the current ensemble.

Seeking for a radio station



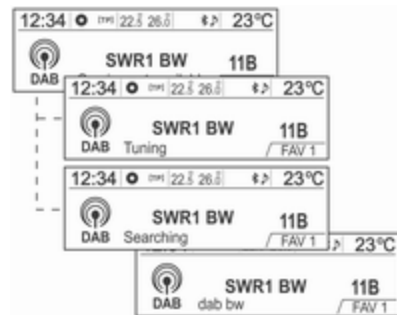
Press and hold the ◀◀ / ▶▶ buttons to quickly change the frequency, and then release the button at the desired frequency.

Seeking for a DAB ensemble

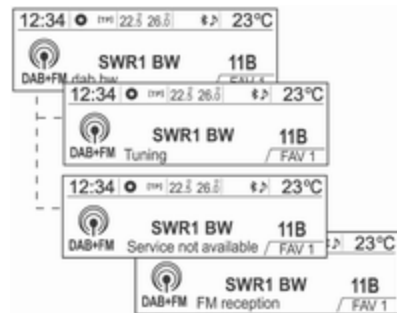


Press and hold the ◀◀ / ▶▶ buttons to automatically seek for the available DAB service component with good reception.

Linking the DAB service



(DAB-DAB on/DAB-FM off)



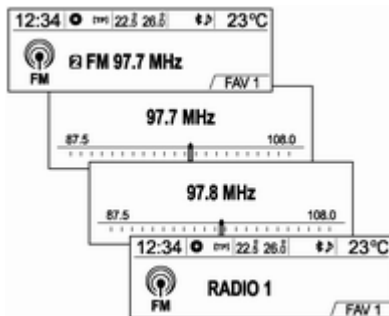
(DAB-DAB off/DAB-FM on)



(DAB-DAB on/DAB-FM on)

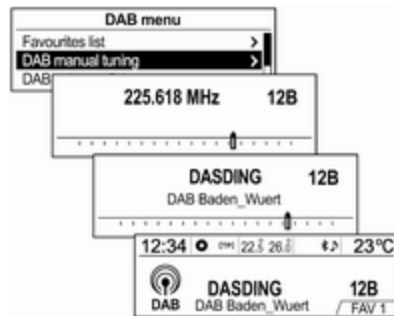
When you setup the **Auto linking DAB-FM** as activated, if the DAB service signal is weak, the Infotainment system receives the linked service component automatically (refer to **Settings** → **Radio settings** → **DAB settings** → **Auto linking DAB-FM**).

Tuning a radio station manually



Turn the multifunction knob to manually find the desired broadcasting frequency.

Tuning a DAB station manually

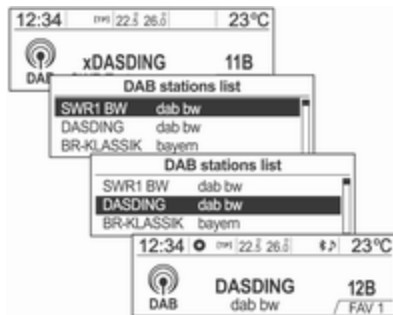


From the DAB mode, press the multifunction knob to enter the **DAB menu**.

Turn the multifunction knob to select **DAB manual tuning** and then press the multifunction knob.

Turn the multifunction knob to manually find the desired broadcasting frequency, and then press the multifunction knob.

Using the DAB stations list

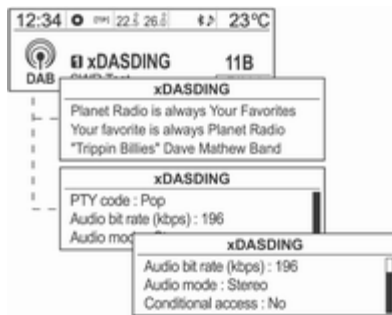


Turn the multifunction knob to display the **DAB stations list**.

- The **DAB stations list** information will be displayed.
- If the **DAB stations list** is empty, the **DAB stations list** update is started automatically.

Turn the multifunction knob to select the desired list, and then press the multifunction knob to receive the relevant broadcasting channel.

Showing the DAB information



Repeatedly press the **INFO** button to select the desired display mode for the DAB station information.

The number 1 broadcasting information of the selected favourites preset page (**FAV1**, **FAV2**, etc.) will be displayed.

Using the preset buttons

Registering the preset button

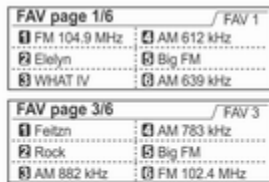


Press the **FAV 1-2-3** button to select the desired page of saved favourites.

- Up to 3 favourites pages can be saved, and each page can store up to six radio or DAB stations.

- It is possible to setup the number of favourites pages being used under **Settings** → **Radio settings** → **Radio favourites** → **Max. number of favourites pages**.
- If a new radio station is registered to one of the previously registered 1 ~ 6 preset buttons, its previous content will be deleted and replaced with the new radio or DAB station that is saved.

Listening to the preset button directly



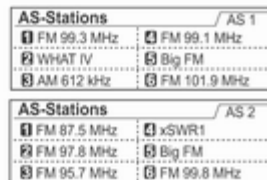
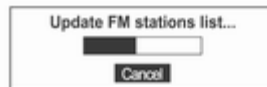
Repeatedly press the **FAV 1-2-3** button to select the desired favourites presets page.

The number 1 broadcasting information of the selected favourites presets page will be displayed.

Press one of the 1 ~ 6 preset buttons to directly listen to the radio or DAB station saved to that button.

Using the auto store stations

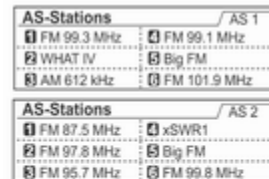
Registering the stations automatically



Hold down the **AS 1-2** button to store the stations with good reception to that button of the auto store page.

- An update message appears on the display.
- Up to two pages can be saved and each page can store up to six radio stations.

Listening to the auto stored stations



Repeatedly press the **AS 1-2** button to select the desired auto store preset page.

The number 1 broadcasting information of the selected favourites page will be displayed.

Press one of the 1 ~ 6 preset buttons to directly listen to the radio station saved to that button.

Using the FM, AM or DAB menu



Press the multifunction knob to display the radio menu or **DAB menu**. Turn the multifunction knob to move to the desired menu item, and then press the multifunction knob to select the relevant item or to display the item's detailed menu.

FM, AM or DAB menu → Favourites list

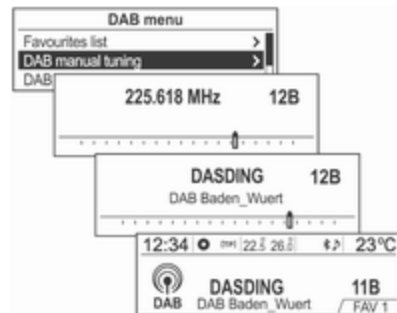


From **FM menu**, **AM menu** or **DAB menu**, turn the multifunction knob to select the **Favourites list**, and then press the multifunction knob.

The **Favourites list** information will be displayed.

Turn the multifunction knob to select the desired **Favourites list**, and then press the multifunction knob to receive the relevant broadcasting channel.

DAB menu → DAB manual tuning



From the **DAB menu**, turn the multifunction knob to select **DAB manual tuning**, and then press the multifunction knob. Turn the multifunction knob to manually find the desired broadcasting frequency.

FM or AM menu → FM or AM stations list



From the **FM menu** or **AM menu**, turn the multifunction knob to select the **FM stations list** or the **AM stations list**, and then press the multifunction knob.

The **FM stations list** or **AM stations list** information will be displayed.

Turn the multifunction knob to select the desired list, and then press the multifunction knob to receive the relevant broadcasting channel.

FM or DAB menu → FM or DAB category list



From the **FM menu** or **DAB menu**, turn the multifunction knob to move to the **FM category list** or the **DAB category list**, and then press the multifunction knob.

The **FM category list** or the **DAB category list** will be displayed.

Turn the multifunction knob to select the desired list, and then press the multifunction knob to receive the relevant broadcasting frequency.

DAB menu → DAB announcements



From the **DAB menu**, turn the multifunction knob and move to the **DAB announcements**, and then press the multifunction knob.

The DAB announcements will be displayed.

Turn the multifunction knob to select the desired list, and then press the multifunction knob to receive the relevant broadcasting frequency.

FM, AM or DAB menu → Update the FM, AM or the DAB stations list



From the **FM menu**, **AM menu** or **DAB menu**, turn the multifunction knob and move to **Update FM stations list**, **Update AM stations list** or **Update DAB stations list**, and then press the multifunction knob.

- The **FM stations list** update, **AM stations list** update or **DAB stations list** update will proceed.
- During the **FM stations list** update, **AM stations list** update or **DAB stations list** update, press the

multifunction knob or the ↵ **BACK** button to stop it from saving changes.

Radio data system (RDS)

- The Radio Data System (RDS) is a service by FM stations that considerably makes it easier to find radio stations with fault-free reception.



- RDS stations are indicated by the programme name with the broadcasting frequency.

View RDS broadcasting information

While receiving RDS broadcasting, press the **INFO** button to check RDS broadcasting information that is being received.

Configuring RDS



Press the **CONFIG** button to display the **Settings** menu.

Turn the multifunction knob to move to **Radio settings**, and then press the multifunction knob.

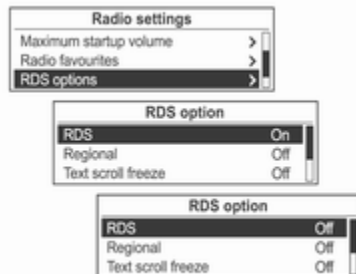
Turn the multifunction knob to select **RDS options**, and then press the multifunction knob.

Switching RDS on and off

Set the RDS option **On** or **Off**.

The following advantages result from activating RDS:

- On the display, the programme name of the set station appears instead of its frequency.
- The Infotainment system always tunes into the best receivable broadcasting frequency of the set station by means of AF (alternative frequency).



From **RDS options**, turn the multifunction knob to move to **RDS Off**, and then press the multifunction knob to turn on the RDS function.

Switching regionalisation on and off

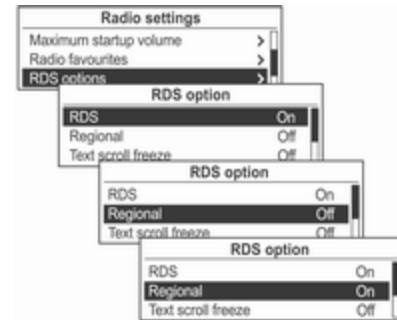
RDS must be activated for regionalisation.

At certain times, some RDS stations broadcast regionally different programmes on different frequencies.

Set the option **Regional** to **On** or **Off**.

Only alternative frequencies (AF) with the same regional programmes are selected.

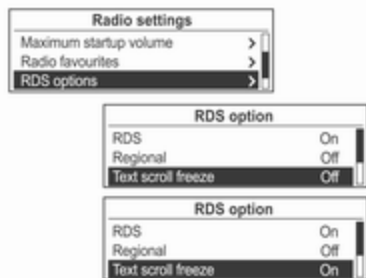
If regionalisation is switched off, alternative frequencies of the stations are selected without regarding regional programmes.



From **Settings** → **Radio settings** → **RDS options**, turn the multifunction knob to move to **Regional Off**, and then press the multifunction knob to turn on the **Regional** function.

Switching Text scroll freeze on and off

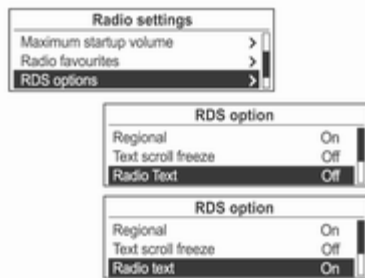
Switch the **Text scroll freeze** function (for displaying the information of the programme service) on or off:



From **Settings** → **Radio settings** → **RDS options**, turn the multifunction knob to move to **Text scroll freeze Off**, and then press the multifunction knob to turn on the **Text scroll freeze** function.

Switching the Radio text function on and off

Switch the **Radio text** function for displaying the information of the programme service on and off.

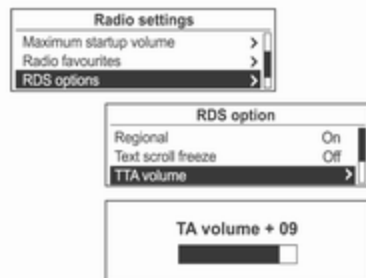


From **Settings** → **Radio settings** → **RDS options**, turn the multifunction knob to select **Radio text Off**, and then press the multifunction knob to turn on the **Radio text** function.

Volume of the traffic announcements (TA)

The minimum volume of the traffic announcements (TA) can be preset.

The minimum volume of the traffic announcements can be increased or reduced in comparison to the normal audio volume.



From **RDS options**, turn the multifunction knob to move to **TA volume**, and then press the multifunction knob.

Turn the multifunction knob to adjust the **TA volume** level, and then press the multifunction knob.

Radio traffic service

TP = traffic programme

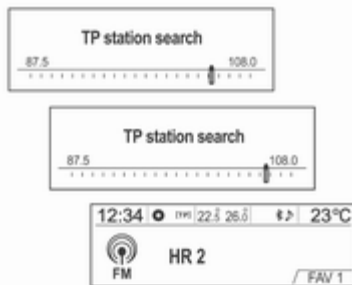
Radio traffic service stations are RDS stations that broadcast traffic news.

Switch the traffic announcement standby facility of the Infotainment system on or off:



Press the **TP** button to turn the traffic programme service function on or off.

- If the radio traffic service is switched on, [] is displayed in the radio main menu.



- If the current station is not a radio traffic service station, then a search is automatically started for the next radio traffic service station.
- Once a radio traffic service station has been found, [TP] is displayed in the radio main menu.
- If the radio traffic service is switched on, then the CD, MP3, USB, iPod, Bluetooth music or AUX replay is interrupted for the duration of the traffic announcement.

Blocking out traffic announcements

Block out a traffic announcement, e.g. during CD or MP3 replay or during radio reception:



Press the **TP** button.

Switch on the radio traffic service and fully turn down the volume of the Infotainment system.

The traffic announcement is aborted, but the radio traffic service remains switched on.

Blocking out current traffic announcements

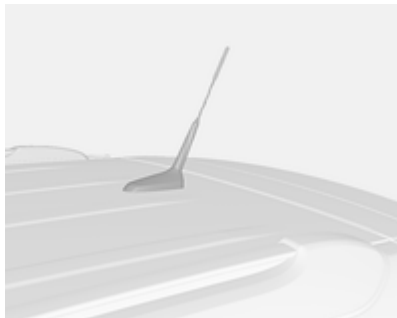
Block out a current traffic announcement, e.g. during TA radio reception:



(1) Blocking out the status indicator:
[TP] → TP

Press the **TP** button.

Fixed mast antenna



To remove the roof antenna, rotate it counterclockwise. To install the roof antenna, rotate it clockwise.

Caution

Be sure to remove the antenna before entering a place with a low ceiling or it may be damaged.

Entering the automatic car wash with the antenna installed may result in damage to the antenna or

the roof panel. Be sure to remove your antenna before entering the automatic car wash.

Install the antenna fully tightened and adjusted to the upright position to ensure proper reception.

Audio players

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CD player

The CD/MP3 player of this system can play audio CD and MP3 (WMA) discs.

Before using the CD player

Important information about audio CD and MP3 (WMA) discs

Caution

In any case, do not insert any DVDs, mini disks with a diameter of 8 cm, or discs with abnormal surfaces in this CD/MP3 (WMA) player.

Do not put any stickers on the disk surface. Such disks may get stuck in the CD player, and damage the drive device. If this occurs, then the device will need to be replaced at high costs.

- An audio CD disc with an anti-piracy function with no compatibility with the audio CD standard may not work properly or not at all.

- CD-R and CD-RW discs that are manually recorded are more often handled with carelessness than the original CD discs. Manually recorded CD-R and CD-RW discs should be handled with special care. Please refer to the following.
- Manually recorded CD-R and CD-RW discs may not play properly or not at all. In such cases, this is not a problem with the device.
- When changing discs, take care to not smear any fingerprints on the playing side.
- After removing the disc from the CD/MP3 player, make sure to immediately put the disc into a disc sleeve to prevent it from being damaged or smeared with dust.
- If the disc is smeared with dust or liquid, then this may cause problems by contaminating the lens of the CD/MP3 player inside the device.
- Protect the disc from heat and exposure to direct light.

Usable disc type

- This product can play audio CD/MP3 (WMA) discs.
 - ◆ CD-DA: CD-R/CD-RW
 - ◆ MP3 (WMA): CD-R/CD-RW/CD-ROM
- The MP3 (WMA) files below cannot be played.
 - ◆ Files encoded in MP3i (MP3 interactive) or MP3 PRO standards
 - ◆ MP3 (WMA) files encoded in non-standards
 - ◆ MP3 files that are not in MPEG1 Layer3 format

Cautions for using discs

- Do not use any of the discs described below. Excessive use of these discs in the player may cause problems.
 - ◆ Discs with stickers, labels, or a protective cell attached
 - ◆ Discs affixed with a label printed with an inkjet printer

- ◆ Discs that are made by over-burning, thus holding data exceeding the standard capacity
- ◆ Discs with cracks or scratches or which are bent
- ◆ An 8 cm disc or a non-circular disc (quadrangle, pentagon, oval)
- Do not put anything other than discs in the disc slot since this may cause trouble or damage.
- The disc player may not work properly if the heater is turned on in cold weather due to moisture created inside the device. If this is a concern, keep the product off for about one hour before use.
- Play may be stopped due to the vehicle shaking while driving on rugged roads.
- Do not forcefully take out or insert the disc or block it with your hand while it is being ejected.
- Insert the disc with the printed side facing up. It cannot be played if it is inserted upside down.

- Do not touch the recording side with your hand while handling the disc (the side without any print or decoration).
- Place discs that are not being used in cases, and keep them in a place not exposed to direct light or high temperature.
- Do not smear any chemical substances on the disc. Clean discs of dirt with a moist, soft cloth, wiping from the centre to the edge.

Caution for using CD-R/RW discs

- When using CD-R/CD-RW discs, only the discs that have been "finalised" can be used.
- Discs that are created with a PC may not play according to the application programme setup and environment.
- CD-R/CD-RW discs, especially bulk discs, may not work if they are exposed to direct light or high temperature, or if they are kept inside your vehicle for a long time.

- The title and other text information recorded on CD-R/CD-RW discs may not be displayed on this device.
- CD-RW discs may have longer loading times than CDs or CD-R discs.
- Damaged music files may not be played or will be cut off while playing.
- Folders and music files are displayed in the order of: symbol → number → alphabet.
- Some anti-piracy discs may not be played.
- An MP3 (WMA) disc can have a maximum of 512 files for each of the 10 folder levels, and a maximum number of 999 files can be played.
- The folder and file names are not arranged, and are indicated in the order in which they are recorded on the disc.

- This system can only recognise MP3 (WMA) discs made in ISO-9660 level 1/2 or in the Joliet file system. (It does not support the UDF file system.)
- MP3 (WMA) files are not compatible with packet writing data transmission.
- The disc on which MP3 (WMA) files and audio data (CDDA) are written may not be played if it is a CD-Extra or Mixed-Mode CD.
- The file/folder names that can be used per disc storage type are the following, including the four-digit file name extensions (.mp3):
 - ◆ ISO 9660 Level 1: Maximum of 12 characters
 - ◆ ISO 9660 Level 2: Maximum of 31 characters
 - ◆ Joliet: Maximum of 64 characters (1 byte)
 - ◆ Windows long file name: Maximum of 28 characters (1 byte)

Cautions for using MP3 (WMA) music files

- This product can play MP3 (WMA) files with .mp3, .wma (lower case letters) or .MP3 and .WMA (capital letters) file name extensions.
- MP3 files that can be played by this product are the following:
 - ◆ Bit rate: 8kbps ~ 320kbps
 - ◆ Sampling frequency: 48kHz, 44.1kHz, 32kHz (for MPEG-1), 24kHz, 22.05kHz, 16kHz (for MPEG-2)
- While this product can play files with an 8kbps ~ 320kbps bit rate, files with a bit rate above 128kbps will result in high quality sound.
- This product can display ID3 tag (version 1.0, 1.1, 2.2, 2.3 or 2.4) information for MP3 files, such as the album name and the artist.

- To display album (disc title), track (track title), and artist (track artist) information, the file should be compatible with the ID3 tag V1 and V2 formats.
- This product can play MP3 files using VBR. When playing an MP3 file of this VBR type, the remaining time displayed may be different from the real time.

Playing CD/MP3

Main buttons and controls

(4) CD button

Select the CD/MP3 player.

(10) Multifunction knob

- Turn the control knob to move to the track list, menu, or MP3 (WMA) track information item.
- Press the button to display the menu screen for the current item or current mode.

(17) ◀◀ / ▶▶ buttons

- Press these buttons to play the previous or next track.
- Hold down these buttons to rewind or fast forward through the track, and release the button to resume playing at normal speed.

(13) ▲ button

Eject the disc.

(12) INFO button

Display the information for the track being played.

(6) 🔕/🔊 button

Hold down the button to turn the mute function on or off.

Inserting and playing the disk



Insert the disc to be played with the printed surface facing upwards in the disc inserting slot.

- Once the reading of the disc information is completed, the Infotainment system will automatically start playing from track 1.
- When a non-readable disc is inserted, the disc will automatically be ejected with the display of a disc error message, and then the system will switch to the previously used function or FM radio.



- (1) Audio CD
- (2) Audio CD with text
- (3) MP3/WMA CD

When a disc to be played is already inserted, repeatedly press the **CD** button to select CD/MP3 play.

- If there is no disc to be played, **No CD inserted** will be displayed on the screen and the function will not be selectable.
- The track that was previously played will automatically play.

Ejecting the disc



To eject the disc, press the **▲** button and take out the disc.

- When the disc comes out, it automatically switches to the previously used function or FM radio.
- The disc will automatically be inserted back again if it is not taken out for some time.

Changing the playing track



Press the **◀◀ / ▶▶** buttons in play mode to play the previous or next track.

Using the steering wheel remote control, tracks can easily be changed by turning the **▲ SRC ▼** control knob.



For MP3 (WMA) tracks, turn the multifunction knob to move to the play track list, and then press the multifunction knob to instantly change it.

Changing playing position



Hold down the ◀◀ / ▶▶ buttons during play mode to rewind or fast forward through the song. Release the button to resume playing the song at normal speed.

The volume is slightly reduced during rewinding and fast forwarding, and the playing time will be displayed.

View information on playing track



Press the **INFO** button in play mode to display information about the track being played.

If there is no information on the playing track for audio CDs, then the system will display **No information**.

For MP3 (WMA) tracks, more information can be viewed by turning the multifunction knob from the track information display.

- The information displayed includes the file name, folder name, and ID3 tag information saved with the song.

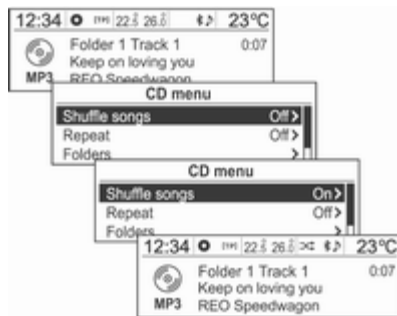
If incorrect ID3 tag information (e.g. artist, song title) was added to the MP3 (WMA) files before they were burnt to disc, this information will be displayed as is by the Infotainment system.

Incorrect ID3 tag information cannot be modified or corrected on the Infotainment system (ID3 tags can only be corrected on a PC).

- The information for songs expressed in special symbols or in unavailable languages may be displayed as ---- or are not displayed at all.

Using the CD menu

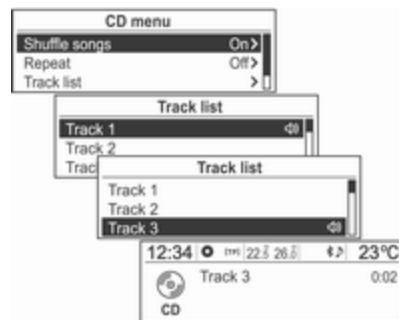
Changing the playback mode



From the play mode, press the multifunction knob to display the **CD menu**.

Turn the multifunction knob to select the shuffle or repeat playback functions, and then press the multifunction knob to turn the relevant functions **On** or **Off**.

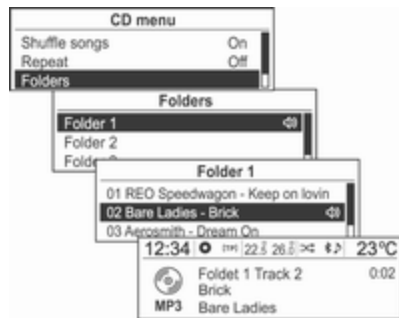
CD menu → Track list



For audio CD discs, turn the multifunction knob from the **CD menu** to select the **Track list**, and then press the multifunction knob.

Turn the multifunction knob to find the desired track list, and then press the multifunction knob to play the selected track.

CD menu → Folders

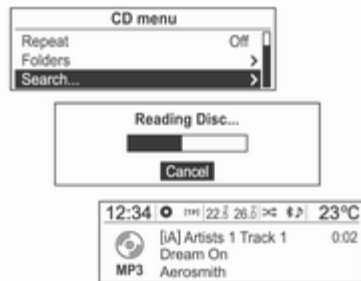


For MP3 (WMA) discs, turn the multifunction knob from the **CD menu** to select **Folders**, and then press the multifunction knob.

Turn the multifunction knob to select the desired folder, and then press the multifunction knob.

Turn the multifunction knob to find the desired track, and then press the multifunction knob to play the selected track from the selected folder.

CD menu → Search...



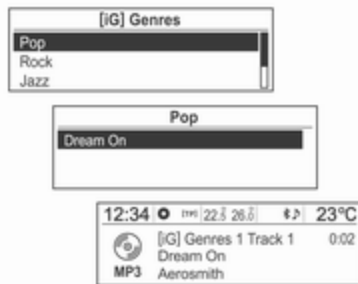
For MP3 (WMA) discs, turn the multifunction knob from the **CD menu**, move to **Search...**, and then press the multifunction knob.

- After the system reads the disc information, the first song of the **Playlist** will be displayed.
- If there are no music files in the **Playlist**, the first song from the **Artists** will be displayed.



Press the multifunction knob again, and from the displayed search item, turn the multifunction knob to select the desired play mode.

The number of relevant songs will be displayed by **Playlist**, **Artists**, **Albums**, **Songs** and **Genres**.



Turn the multifunction knob to select the detailed classification item, and then press the multifunction knob.

Turn the multifunction knob to find the desired track/title, and then press the multifunction knob to play the selected track.

Auxiliary devices

USB player

Cautions for using USB devices

- Operation cannot be guaranteed if the HDD built-in USB mass storage device or CF or SD memory card is

connected by using an USB adapter. Use a USB of flash memory type storage device.

- Take caution to avoid static electricity discharge when connecting or disconnecting the USB device. If connection and disconnection are repeated many times in a short time, this may cause a problem in using the device.
- Operation is not guaranteed if the connecting terminal of the USB device is not metal.
- The connection with i-Stick Type USB storage devices may be faulty due to vehicle vibration, so their operation cannot be guaranteed.
- Be careful not to touch the USB connecting terminal with an object or any part of your body.
- The USB storage device can only be recognised when it is formatted in FAT16/32 file format. Only devices with an allocated unit size of 512 byte/sector or 2,048 byte/

sector can be used. NTFS and other file systems cannot be recognised.

- According to the type and capacity of the USB storage device and the type of the stored file, the time it takes to recognise the files may differ. This is not a problem with the product in this case, so please wait for the files to be processed.
- Files in some USB storage devices may not be recognised due to compatibility problems, and connections with a memory reader or a USB hub are not supported. Please check the device's operation in the vehicle before use.
- When devices such as an MP3 player, mobile phone, or digital camera are connected through a mobile disc, it may not operate normally.
- Do not disconnect the USB storage device while it is being played. This may cause damage to the product or the performance of the USB device.

- Disconnect the connected USB storage device when the vehicle ignition is turned off. If the ignition is turned on while the USB storage device is connected, the USB storage device may be damaged or may not operate normally in some cases.
- USB storage devices can only be connected to this product for the purpose of playing music files. The product's USB terminal should not be used to charge USB accessory equipment since the heat generation using the USB terminal may cause performance issues or damage to the product.
- When the logical drive is separated from a USB mass storage device, only the files from the top-level logical drive can be played for USB music files. This is why the music files to be played should be stored in the top-level drive of the device. Music files, in particular USB storage devices, may also not be

normally played if an application is loaded by partitioning a separate drive inside the USB device.

- Music files to which DRM (Digital Right Management) is applied cannot be played.
- This product can support USB storage devices that are up to 16 Gigabytes in capacity with a limit of 999 files, 512 folders, and 10 stages of folder structure. Normal usage cannot be guaranteed for storage devices that exceed this limit.

Cautions for using USB music files

- Damaged music files may be cut off during playback or may not be played at all.
- Folders and music files are displayed in the order of Symbol → Number → Language.
- A maximum of 64 characters can be recognised for folder or file names written in the Joliet file system.

About MP3 (WMA) music files

- The MP3 files that can be played are the following:
 - ◆ Bit rate: 8kbps ~ 320kbps
 - ◆ Sampling frequency:
 - 48kHz, 44.1kHz, 32kHz (for MPEG-1)
 - 24kHz, 22.05kHz, 16kHz (for MPEG-2)
- This product displays MP3 (WMA) files with the mp3, .wma (lower case letters) or .MP3 or .WMA (capital letters) file name extensions.
- This product can display ID3 tag (version 1.0, 1.1, 2.2, 2.3, 2.4) information about album, artist, etc. for MP3 files.
- The file/folder names that can be used according to the storage type are the following, including the four character file name extension (.mp3):

- ◆ ISO 9660 Level 1: Maximum of 12 characters
- ◆ ISO 9660 Level 2: Maximum of 31 characters
- ◆ Joliet: Maximum of 64 characters (1 byte)
- ◆ Windows long file name: maximum of 28 characters (1 byte)
- This product can play MP3 files which use VBR. When a VBR type MP3 file is being played, the remaining time displayed may be different from the actual time remaining.

Main buttons and controls

The following main buttons and controls are used to play USB music files.

(5) **AUX** button

Press the button repeatedly when the USB device is connected to select the USB play mode.

(10) Multifunction knob

- Turn the control knob to move to the track list, menu or MP3 (WMA) track information.
- Press the button to display the menu screen provided by the current item or current mode.

(17) ◀◀ / ▶▶ buttons

- Press these buttons to play the previous or next track.
- Hold down these buttons to rewind or fast forward, and then release to play at normal speed.

(12) **INFO** button

Displays the information of the track being played.

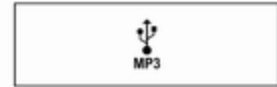
(6) ⏸ button

Hold down the button to turn the pause function on or off.

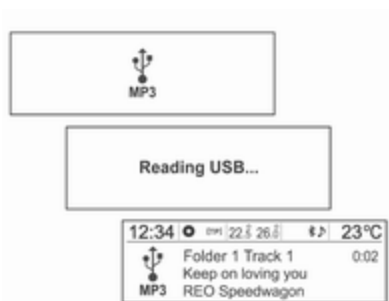
(9) ⏪ **BACK** button

Cancel the input item or return to the previous menu.

Connecting the USB storage device



Connect the USB storage device in which music files are stored to the USB connection terminal.



- Once the product finishes reading the information on the USB storage device, it will automatically play from track 1.
- If a non-readable USB storage device is connected, then an error message will appear and the product will automatically switch to the previously used function or the FM radio function.

If the USB storage device to be played is already connected, repeatedly press the **AUX** button to select the USB player.

It will automatically play from the point at which the playback stopped.

Afterwards, the functions of the USB player are operated similarly to CD/MP3 playback.

Ending the USB music files playback
Press the **RADIO/BAND** or **CD** button to select other functions.

To end the play and disconnect the USB storage device, use **Menu USB** → **Remove USB** to safely remove the USB storage device.

Using the USB menu

The instructions for **Shuffle songs/Repeat/Folders/Search...** from the **Menu USB** are similar to the CD/MP3 player's **CD menu**; only the **Remove USB** item has been added. Refer to the CD/MP3 player functions from the **CD menu**.

Menu USB → Remove USB



Press the multifunction knob from play mode to display the **Menu USB**. Turn the multifunction knob to select **Remove USB**, and then press the multifunction knob to display the message notifying that it is safe to remove the USB device.

Disconnect the USB device from the USB connection terminal.

Return to the previously used function.

iPod player

Main buttons and controls

The following main buttons and controls are used to play iPod music files.

(5) AUX button

Press the button repeatedly when the iPod is connected to select the iPod play mode.

(10) Multifunction knob

- Turn the control knob to move and display the track list that is playing.
- Press the button to display the menu screen provided by the current item or current mode.

(17) ◀◀ / ▶▶ buttons

- Press these buttons to play the previous or next track.
- Hold down these buttons to rewind or fast forward, and then release to play at normal speed.

(12) INFO button

Displays the information of the track being played.

(6) 🎧/🔊 button

Hold down the button to turn the pause function on or off.

(9) ⏪ BACK button

Cancel the previous item or return to the previous menu.

Connecting the iPod player



Connect the iPod device in which the music files are stored to the USB connection terminal.

- The iPod product models that are connected/supported by this product are the following:
 - ◆ iPod 2G Nano/iPod 3G Nano/iPod 4G & 5G Nano

- ◆ iPod 120GB & 160GB Classic
- ◆ iPod 1G, 2G, & 3G Touch
- ◆ iPhone 3G & 3GS



- Only connect the iPod to this product with connection cables supported by the iPod products. Other connection cables cannot be used.
- In some cases, the iPod product may be damaged if the ignition is turned off when it is connected to the product.

When the iPod product is not being used, keep it separately from this

product with the vehicle ignition turned off.

- Once the product finishes reading the information on the iPod device, it will automatically play from track 1 or the previously played track.
- If a non-readable iPod device is connected, then the relevant error message will appear and the product will automatically switch to the previously used function or the FM radio function.



If the iPod device to be played is already connected, repeatedly press the **AUX** button to select the iPod player.

- It will automatically play from the previously played point.
- The playback functions and the information display items of the iPod player used with this product may be different from the iPod in terms of play order, method, and the information displayed.

Afterwards, the functions to play the iPod are operated similarly to CD/MP3 playback.

Log-off the iPod playback

To end the playback, press the **RADIO/BAND** or the **CD** button to select other functions.

Using the iPod Menu

From the **iPod Menu**, the instructions for **Shuffle songs/Repeat/Search...** (including **Audiobooks** and **Composers**) are similar to the CD/MP3 player's **CD menu**; only the **Eject iPod** item has been added. Refer to each item of CD/MP3 for use.

iPod Menu → Eject iPod



From the iPod mode, press the multifunction knob to display the **iPod Menu**.

Turn the multifunction knob to move to **Eject iPod**, and then press the multifunction knob to display the message notifying you that it is safe to remove the device.

Separate the iPod device from the USB connection terminal.

Return to the previously used function.

Exterior sound (AUX) Input

Main buttons and controls

The following main buttons and controls are used to enjoy the rich sound of the Infotainment system from the sound output of a connected exterior sound device.

(5) **AUX** button

When an exterior sound device is connected, press the button repeatedly to select the exterior sound input mode.

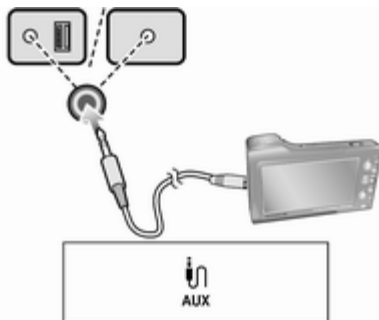
(2) **⏪** button with **VOL** control knob

Turn the control knob to adjust the volume.

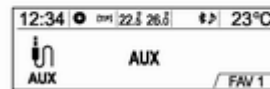
(6) **🔇** button

Hold down this button to turn the mute function **On** or **Off**.

Connecting an exterior sound



Connect the audio output of the external audio equipment to the AUX input terminal.



The Infotainment system will automatically switch to the exterior sound (AUX) input mode when the exterior sound device is connected.

Press the **AUX** button to switch to the exterior sound input mode if the exterior sound system has already been connected.

Turn the **VOL** control knob to adjust the volume.

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Bluetooth®

Main buttons and controls

The following main buttons and controls are used to play music files or use the call functions via a Bluetooth device.

(6)  button

Press this button to activate the Bluetooth mode.

(5) **AUX** button

When a Bluetooth device with a music player function is connected, press this button repeatedly to select Bluetooth audio play mode.

(10) Multifunction knob

- Press the button in Bluetooth phone mode to display the menu screen.
- Turn the control knob to move to the menu or setup value.

(17)  /  buttons

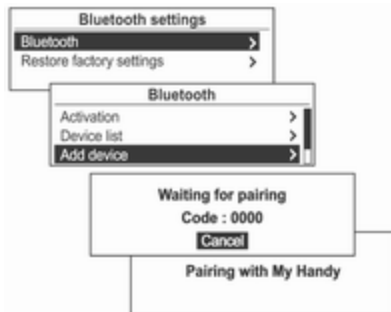
- Press these buttons in Bluetooth audio play mode to play the previous or next track.
- Hold down these buttons to rewind or fast forward, and release to play at normal speed.

Connecting Bluetooth

Registering the Bluetooth device

Register the Bluetooth device to be connected to the Infotainment system with the vehicle ignition turned off.

Firstly, set up the Bluetooth device to be connected from **Bluetooth settings** to enable other devices to search for the Bluetooth device.



Press the **CONFIG** button, and use the multifunction knob to move to **Settings** → **Bluetooth settings** → **Bluetooth** → **Add device (Handsfree)**, and then press the multifunction knob.

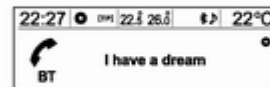
- Bluetooth devices can be registered not only by using the **CONFIG** button, but also by using **Phone Menu** → **Bluetooth settings** → **Bluetooth** → **Add device (Handsfree)**.

- If there already is a Bluetooth device connected to the Infotainment system, the **Bluetooth is busy** message will appear.
- Connection standby will be displayed with a message and a security code. (The initial value is 0000, and can be changed from **Settings** → **Bluetooth settings** → **Bluetooth** → **Change Bluetooth code**.)

The Infotainment system can be found by searching the to-be-connected Bluetooth device.

Enter the security code for the Infotainment system through the Bluetooth device.

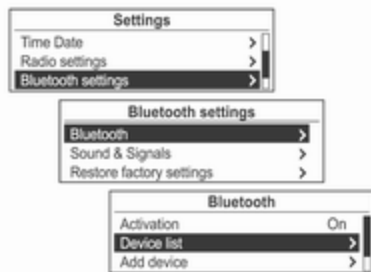
If the registration of the device to be connected to the Infotainment system is successful, then the screen will display the information of the Bluetooth device.



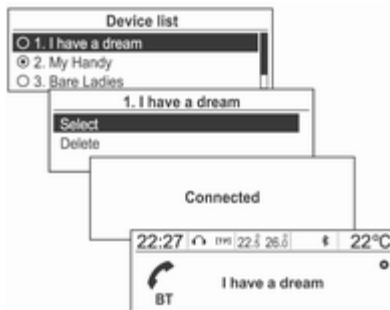
The Infotainment system can register up to five Bluetooth devices.

Connecting/deleting/separating the Bluetooth devices

Firstly, set up the Bluetooth device to be connected from **Bluetooth settings** to enable other devices to search for the Bluetooth device.



Press the **CONFIG** button, and use the multifunction knob to move to **Settings** → **Bluetooth settings** → **Bluetooth** → **Device list** and then press the multifunction knob.



Use the multifunction knob to move from the registered Bluetooth device to the device to be connected, and then press the multifunction knob.



Use the multifunction knob to move from the registered Bluetooth device to the device to be deleted, and then press the multifunction knob.



To disconnect the currently connected Bluetooth device from the device list screen, select the connected device, which will display **Disconnect**, and then press the multifunction knob.

Cautions for registering/connecting Bluetooth

- When it is not possible to connect to Bluetooth, delete the entire device list from the Bluetooth

device to be connected, and try again. If deleting the entire device list does not work, then reinstall the battery and reconnect.

- If there is a problem after the Bluetooth device has been connected, use the multifunction knob to carry out **Settings** → **Bluetooth settings** → **Restore factory settings**.


Initialise the device with the problem caused by an error that occurred with the connection of the Bluetooth device and the Infotainment system.

- Sometimes, Bluetooth can only be connected through handsfree or the Bluetooth audio play functions despite a stereo headset being connected. In this case, try and reconnect the Infotainment system using the Bluetooth device.
- For Bluetooth devices that do not support stereo headsets, the Bluetooth audio play function cannot be used.

Bluetooth audio

How to play Bluetooth audio

- A mobile phone or Bluetooth device that supports A2DP (Advanced Audio Distribution Profile) versions over 1.2 must be registered and connected to the product.
- From the mobile phone or Bluetooth device type to set/connect the item as a stereo headset.

A musical note icon  will appear at the bottom right of the screen, if the stereo headset is successfully connected.

- Do not connect the mobile phone to the Bluetooth connection terminal. An error may occur if it is connected during the CD/MP3 and Bluetooth audio play mode.

Playing Bluetooth audio



Press the **AUX** button repeatedly to select the connected Bluetooth audio play mode.

If the Bluetooth device is not connected, then this function cannot be selected.

Activating the mobile phone or Bluetooth device will play the music files.

- The sound played by the Bluetooth device is delivered through the Infotainment system.
- For Bluetooth audio to play, the music must at least be played once from the music player mode of the mobile phone or Bluetooth device after connecting as a stereo headset. After being played at least once, the music player will automatically play upon entering play mode, and it will automatically stop when the music player mode ends. If the mobile phone or Bluetooth device is not in the waiting screen mode, some devices may not automatically play in Bluetooth audio play mode.

Press the ◀◀ / ▶▶ buttons to switch to the previous or next track, or hold down these buttons to fast forward or rewind.

- This function only operates with Bluetooth devices that support AVRCP (Audio Video Remote Control Profile) version 1.0 or above. (Depending on the Bluetooth device options, some

devices may display AVRCP being connected for the initial connection.)

- The information about the playing track and the track position will not be displayed on the Infotainment system screen.

Cautions for playing Bluetooth audio

- Do not change the track too quickly when playing Bluetooth audio.

It takes some time to transmit data from the mobile phone to the Infotainment system.

- The Infotainment system transmits the order to play from the mobile phone in the Bluetooth audio play mode. If this is done in a different mode, then the device transmits the order to stop.

Depending on the mobile phone's options, this order to play/stop may take some time to activate.

- If the mobile phone or Bluetooth device is not in the waiting screen mode, it may not automatically play despite being carried out from the Bluetooth audio play mode.

If Bluetooth audio playback is not functioning, then check to see if the mobile phone is in the waiting screen mode.

- Sometimes, sounds may be cut off during the Bluetooth audio playback. The Infotainment system outputs the sound from the mobile phone or Bluetooth device as it is transmitted.

Bluetooth error messages and measures

■ Bluetooth deactivated

Check if Bluetooth is activated. The Bluetooth function can be used upon activating Bluetooth.

■ Bluetooth is busy

Check if there are any Bluetooth devices connected. To connect another device, disconnect any other connected devices first, and then reconnect.

■ Device list is full

Check if there are less than 5 registered devices. No more than 5 devices can be registered.

■ No phone book available

This message will be displayed if the mobile phone does not support contacts transmission. If this message appears after several attempts, then the device does not support contacts transmission.

Caution

The message will be displayed when the transmission of contacts is supported while information with a device error is also transmitted. Update the device again if this occurs.

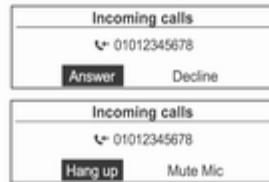
■ The phone book is empty


This message is displayed if no phone numbers are stored in the mobile phone. This will also be displayed if the phone log transmission is supported, but in a way that is not supported by the Infotainment system.

Hands free phone


Taking calls

When a phone call comes through the connected Bluetooth mobile phone, the track currently playing will be cut off and the phone will ring, displaying the relevant information.



To talk on the phone, press the  button on the steering wheel remote control or turn the multifunction knob to move to the answer function, and then press the multifunction knob.




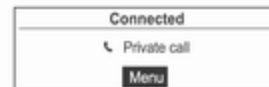
- To reject a call, press the  button on the steering wheel remote control or use the multifunction knob and select **Decline**.



- While talking on the phone, it is possible to block the transmitted sound by selecting the **Mute Mic** (mute microphone) item by using the multifunction knob.




- While talking on the phone, press and hold the  button from the steering wheel remote control to change to the private call mode (some phones may not support the private call mode depending on the phone's options).
- When a call is received with the Infotainment system and Bluetooth is being connected, there are mobile phones that do not automatically change to the private call mode. This depends on the original specifications of each mobile phone.



- When it is possible to use services related to a third-party conversation supported by the communications service provider through an application, it is possible to make calls during a call through the Infotainment system.
- While third or more-party conversations, displaying contents may differ from practical information.

Calling by redial

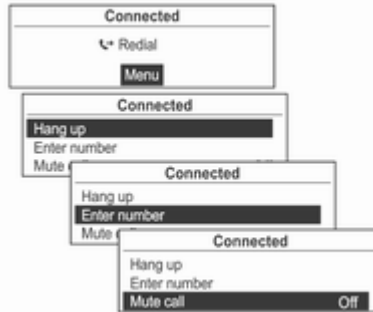


From the steering wheel remote control, press the  button to display the redial guidance screen, or press and hold the button to display the caller log screen.

Turn the multifunction knob to select **Yes**, and then press the multifunction knob to make a call.

- If the mobile phone is not in waiting mode, your phone might not support the redial function. This depends on the mobile phone's options.

- When redialling a number, the connected phone number will not be displayed.
- Depending on the mobile phone, there are cases in which the call is made through the call history of the received or missed calls instead of the redial mode. This depends on the mobile phone's options.




Press the multifunction knob while the phone is connected to display the connecting functions as shown below.

Use the multifunction knob to use the functions in the menu that appears.

Calling by outgoing call log



To make a call by the outgoing call log, press and hold the  button on the steering wheel remote control and turn the multifunction knob to select the desired call list, then press the multifunction knob.

Calling by entering numbers



To make a call by entering the phone number, press the multifunction knob and turn the multifunction knob to select **Enter number**, and then press the multifunction knob.

Turn the multifunction knob to select the desired letters, and then press the multifunction knob to enter the number.



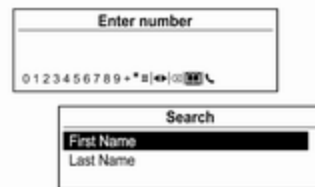
- (1) Move: Move input position
- (2) Delete: Delete entered character
- (3) Phone book: Search contacts (usable after updating the phone numbers)
- (4) Dial: Start dialling

- Repeat this procedure to enter all telephone numbers.
- Press the ↶ **BACK** button to delete a letter one by one, or press and hold the button to delete all content that has been entered.
- Refer to the following contents to edit the input contents.

After the telephone number has been fully entered, turn the multifunction knob to move to ☎ and then press the multifunction knob to start dialling.

To cancel the dialling process, press the multifunction knob.

Use the phone book for entering the phone number.



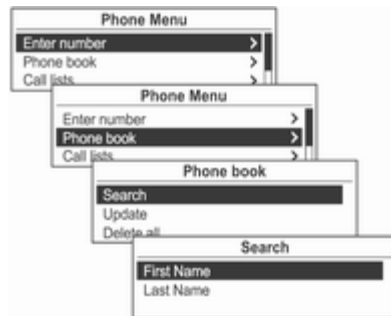
Turn the multifunction knob to select **Phone book**, and then press the multifunction knob to enter the **Search** function (see below).



To end a call, turn the multifunction knob to choose **Hang up**, and then press the multifunction knob.

Using the Phone Menu

Phone Menu → Phone book → Search



Press the multifunction knob, turn the multifunction knob to select **Phone book**, and then press the multifunction knob.

A notification will appear on screen, with no contacts to use, and you will be returned to the previous menu.

Turn the multifunction knob to select **Search**, and then press the multifunction knob.

Turn the multifunction knob to select **First Name** or **Last Name**, and then press the multifunction knob.



Turn the multifunction knob to select the search terms/range, and then press the multifunction knob.

Turn the multifunction knob from the search results screen to select the desired item, and then press the multifunction knob to view the details for that item.

Display number types

[iH]: Home

[iM]: Mobile

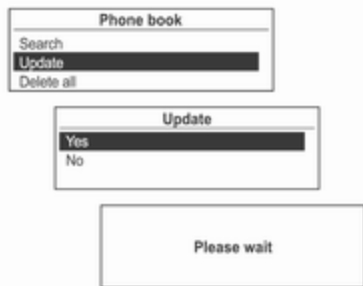
[iW]: Work

[iO]: Other

To call the relevant number, press the multifunction knob.

For more information, refer to the making phone calls item.

Phone Menu → Phone book → Update
Update the contacts of the connected mobile phone to the system's contacts.



Using the multifunction knob, select **Phone Menu → Phone book → Update**, and then press the multifunction knob.

Turn the multifunction knob to select **Yes** or **No**, and then press the multifunction knob to activate or cancel the update.



Notice for updating contacts

- This function can be used with mobile phones that support a contacts update and the call history transmission function. (If the product is connected to a mobile phone that does not support these functions, the call history can be displayed through the Infotainment system.)
- An update is not supported for more than 1,000 contact numbers.

- Be aware that hands-free and Bluetooth audio playback will be cut off while proceeding with updates for contacts (other functions except for handsfree and Bluetooth audio playback can be used.)
- To update your contacts, it is possible to request for the transmission certification for contacts. If the waiting screen does not change for a long time, you can check whether the mobile phone is requesting for certification. When requesting for certification of the mobile phone, all Bluetooth connections will be cut off if it is not accepted, and then the device will be reconnected.
- When receiving the call history, it is possible to request for the transmission certification for the call history from the mobile phone. If the waiting screen does not change for a long time, check whether the mobile phone is requesting for certification. When requesting for the certification of the mobile phone, all

Bluetooth connections will be cut off if it is not accepted, and then the device will be reconnected.

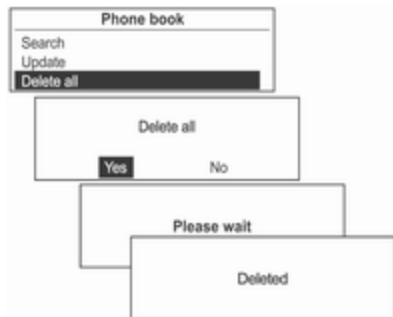
- If there is a problem in the stored information of the mobile phone, the contacts may not be updated.
- The Infotainment system only uses information coded in UTF-8 format.
- If other operations (game, map search, navigation, etc.) are activated during the contacts update or call history transmission progress, the update/transmission process may not work.
This is because other operations running on the mobile phone are affecting the data transmission.
- When the contacts update or call history transmission is completed, all handsfree and Bluetooth audio play modes will be automatically disconnected and then reconnected.
- If the Infotainment system gets turned off while talking on the phone, the call will be transmitted to the mobile phone. Some phones

may need to setup a call transmission function beforehand, depending on the type of the phone.

- If the user disconnects the connection directly (using the Infotainment or mobile phone), the auto connection function does not take place.
Auto-connection: This function automatically finds and connects the device that was last connected.
- The contacts may not always display all the lists on the phone when selected. The Infotainment system only displays what has been transmitted from the mobile phone.
- The contacts update can only receive four numbers per contacts directory (mobile phone, office, home, and other).
- Changing the language setup during the contacts update will delete all previous updates.

- If the mobile phone is not set with a waiting screen, calls may not be made to this Infotainment system.
- If the OS of the mobile phone gets updated, it may change how the phone's Bluetooth function works.
- Special characters and unsupported languages will be displayed as ____.
- Calls registered in the contacts without any name will be indicated as **No number in contact**.
- The Infotainment system will display contacts, call history, and redial information as it is transmitted from the mobile phone.

Phone Menu → Phone book → Delete all

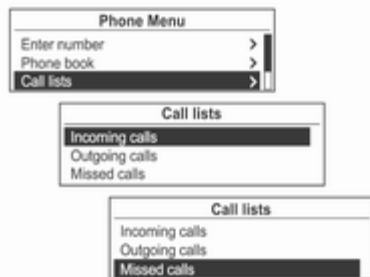


Use the multifunction knob to select **Phone Menu** → **Phone book** → **Delete all**, and then press the multifunction knob.

Turn the multifunction knob to select **Yes** or **No**, and then press the multifunction knob to delete all contacts or to cancel.

Phone Menu → **Call lists**

Check, use, or delete contacts.



Use the multifunction knob to select **Phone Menu** → **Call lists**, and then press the multifunction knob.

Use the multifunction knob to select the detailed call history, and then press the multifunction knob.



Turn the multifunction knob to check the call history and to make a call.

Press the multifunction knob to call the selected number from the call history.

- If the **Please wait** screen continues to be displayed for too long after selecting the call log, check if the mobile phone is requesting verification for the transfer of call numbers. After completing the mobile phone verification

procedures, the contacts and the call log will be transmitted to the Infotainment system.

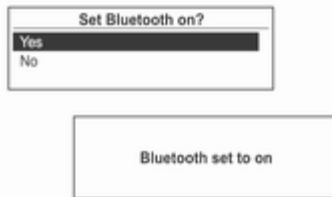
- The call log from the mobile phone and the log displayed on the Infotainment system may be different. This Infotainment system shows the information transmitted from the mobile phone as it is.

Phone Menu → Bluetooth settings

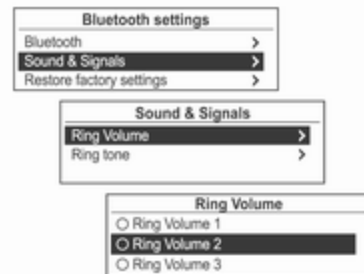
Set up the Bluetooth function.



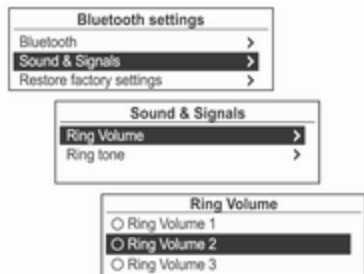
Using the multifunction knob, select the **Phone Menu** → **Bluetooth settings**, and then press the multifunction knob.



To activate the Bluetooth function, register, connect or delete the Bluetooth device or change the Bluetooth code, choose **Bluetooth** by using the multifunction knob, and then use the multifunction knob to set up the desired item.



To set up the ring tone and its volume used by the Bluetooth function, use the multifunction knob to select **Sound & Signals**, and then set up the desired items with the multifunction knob.



To reinitialise the **Bluetooth settings** to their default values, use the multifunction knob to select the initial setup restoration item, and then select **Yes** with the multifunction knob.

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