Dear Customer,

In this operating manual you will learn about the various functions of the PCM (Porsche Communication Management) system and its operating options. To prevent danger to yourself and to others, please start by familiarising yourself with your PCM.

On-board literature

Keep the on-board literature in the vehicle at all times and if you ever come to sell your vehicle, please hand it over to the new owner.

Suggestions

Do you have any questions, suggestions or ideas about your vehicle or the on-board literature? Please write to us:

Dr. Ing. h.c. F. Porsche AG
Vertrieb Customer Relations
Porschestraße 15-19
71634 Ludwigsburg Germany

Orientation aids in the operating manual

This operating manual contains four orientation aids to help you quickly locate the information you want. They are each shown against a yellow background.

The **master table of contents** offers you an overview of the structure of the entire manual.

In the **section table of contents** you will find detailed listings of the individual topics.

The **index** enables you to find the various topics with the help of keywords.

Equipment

There may be some differences in equipment and technology with respect to the illustrations and descriptions due to the ongoing development of the systems and the varying laws in individual countries.

The equipment versions shown are not always included as standard. Some of the functions described in this operating manual are optional equipment and may not be available in your PCM. If this is the case, the relevant menu items will not be available to you.

WKD 952 220 **10** 03/09

Porsche, the Porsche Crest, Panamera, Carrera, Targa, Boxster, Cayenne, Tiptronic and Tequipment are registered trademarks of Dr. Ing. h.c. F. Porsche AG.

Printed in Germany.

Reprinting (including excerpts) as well as all other forms of reproduction are prohibited without the written permission of Dr. Ing. h.c. F. Porsche AG.

© Dr. Ing. h.c. F. Porsche AG
Porscheplatz 1
70435 Stuttgart Germany

Contents

Using the PCM 6
Important information on operation and road safety 6
Introduction to operation 7
Menu types and options for operation 12
Sound settings 15
Sound settings with BOSE® Surround Sound System 16
Sound settings with Burmester® High-End Surround Sound System 17
Configuring the PCM display 18

TUNER 22
Radio 22
Making settings for radio mode 25
TV 27
Making settings for TV mode 31

DISC 34
iPod* 40
USB 43
External Bluetooth® audio source 48
Bluetooth® settings 49

PHONE 54
Bluetooth® 54
Operating the **Bluetooth®** hands-free unit (**Bluetooth®** mobile phone preparation) 56
Telephone settings (Bluetooth® mobile phone preparation) 66
Bluetooth® settings (Bluetooth® mobile phone preparation) 67
Phonebook settings (Bluetooth® mobile phone preparation) 70
Transferring the phonebook 71
Operating the PCM telephone 72
Text messages (SMS) (with PCM telephone only) 83
Telephone settings (PCM telephone) 91
Call settings (PCM telephone) 93
Bluetooth® settings (PCM telephone) 95
Phonebook settings 98
Settings for messages and data (PCM telephone) 100
Cordless handset 101

INFO 109
Displaying traffic messages (TMC) 109
Displaying sections of the route 111
Displaying information about the location 111
Displaying detailed information about the active audio source 111

CAR 113
Trip data display 113
ParkAssist 114
Rear view camera 116
Logbook 119
The Sport display 127
Extended memory 135

NAVI 140
General operation 140
Entering an address 141
Starting/stopping route guidance 143
List of previous destinations 144
Personal destination memory 146
Points of interest 151
Changing options for route guidance 153
Stopovers (tour) 155
Destination input using geographical coordinates 158
Destination input using the map 158
Storing 158
Off-road navigation 159
Reloading data 164

MAP 166
Map display 166

Voice control 172
How voice control works 172
Symbols in sample dialogues 173
Commands 173
Basic voice control functions 175
Using the help function 177
Operating examples 179

Index 194

Technical data 202
Radio frequency ranges 202
Tuning steps used during automatic station search 202
Regional codes for video DVDs 202
Affiliated countries for TV tuner country settings 202

Using the PCM

Important information on operation and road safety 6
Introduction to operation 7
- Switching the PCM on/off 7
- Setting the volume 8
- Muting 8
- Selecting the audio source 8
- Controls and their functions 9

Menu types and options for operation 12
- What are the menu types? 12
- Calling up and operating menu types 12
- Exiting menus 13
- Operating lists 13
- Operating input menus 14

Sound settings 15
- Setting the bass 15
- Setting the treble 15
- Setting the balance 15
- Setting the fader 15
- Setting the loudness 16
- Setting SDV (speed-dependent volume) 16

Sound settings with BOSE® Surround Sound System 16
- Setting surround 16
- Setting linear 16
- Setting AudioPilot® 16

Sound settings with Burmester® High-End Surround Sound System 17
- Setting the listening position 17
- Setting smooth 17
- Setting surround 17
- Setting live 17
- Setting sound conditioner 17

Configuring the PCM display 18
- Configuring display settings 18
- Setting the language 19
- Setting the units 19
- Resetting personal settings 20

Important information on operation and road safety

The **PCM (Porsche Communication Management)** system is the central control unit for the radio, TV tuner, disc mode (CD/DVD, USB, iPod and an external audio source), sound settings, onboard computer, navigation system and telephone.
To avoid danger or injury to yourself and others while using your PCM, you must take the following into consideration:

WARNING!

Accident hazard. Distraction could result in you losing control of the vehicle.

- ▷ Operate your PCM only when you are safely in control of your vehicle and traffic conditions permit. If in doubt, stop the vehicle and operate the PCM while the vehicle is parked.

CAUTION!

Injury hazard. Opening the housing or a damaged housing represents a hazard due to invisible laser radiation.

- ▷ The PCM is a Class 1 laser product. Do not open the housing.
  The PCM does not contain any user-serviceable parts. Any maintenance work must be performed exclusively by qualified service experts.

WARNING!

Accident hazard. The navigation system is only intended as an aid to the driver and makes recommendations on the routes to take. This does not release you from full responsibility for observing road safety, traffic conditions, legal road traffic regulations and any other relevant regulations while driving your vehicle.

As the driver, **you** must assess the traffic situation. **You** have sole responsibility for road safety while driving your car.

- ▷ Continue to pay attention to the traffic situation.

WARNING!

Injury hazard. The telephone must not be used near explosives or flammable materials (e.g. at a petrol station) or near operations involving explosives.
Mobile phones must be switched off in certain hazardous areas such as near petrol stations, fuel depots, chemical plants and demolition work in progress using explosives, for example. They can interfere with technical equipment.

- ▷ Please heed appropriate warnings.
- ▷ Observe statutory regulations and local restrictions when using the telephone.

Introduction to operation

Switching the PCM on/off

Switching on/off via the ignition (permanently)

▷ Switch on the ignition.

The PCM is permanently active.

Switching on/off via the left rotary knob

If the PCM is not to be permanently active, you can also switch it on/off using the left rotary knob.

▷ Press and hold the left rotary knob (volume control) for at least one second.

Battery discharge protection

Switching on/off via the left rotary knob is also possible when the ignition is off.
To protect your vehicle's battery, the PCM will automatically switch itself off again after a few minutes.

NOTICE

Risk of damage. The PCM contains high-quality electronic components which require special care with regard to maintenance.

The following should be observed:

– The display is sensitive to scratches.
– The device must not be sprayed with liquids. Ingress of liquids can result in the destruction of the equipment.

▷ Carefully clean your PCM periodically using a dry, clean and soft cloth (microfibre cloth) or a cleaning brush.

▷ Do not exert excessive pressure on the surface when cleaning.

▷▷▷

▷ **Under no circumstances** may solvents such as methylated spirits, thinners, petrol, acetone or alcohol (ethanol, methanol or isopropyl alcohol) or scouring agents of any type be used.

▷ Remove fingerprints using a slightly damp cloth or a mild cleaning agent.

▷ **Never** spray cleaning agents or other liquids directly onto the display. Instead dampen a cloth and carefully wipe the display clean.

▷ If faults occur, do not open the PCM equipment yourself **under any circumstances**. Always have defective devices repaired by a qualified specialist workshop. We recommend that this work be performed by a Porsche partner, as Porsche partners have trained workshop personnel as well as the necessary parts and tools.

Setting the volume

▷ Turn the left rotary knob .

Depending on the situation, this adjusts the volume for:
– the active audio source,
– a traffic announcement,
– a voice control system announcement,
– the ringtone during an incoming call,
– hands-free mode during a telephone call.

Muting

Muting an audio source

▷ Briefly press the left rotary knob .
This mutes the active audio source. The mute symbol is shown in the bottom line. However, navigation recommendations, telephone calls and traffic announcements continue to be audible.

Cancelling muting

▷ To cancel muting, briefly press the left rotary knob again.

Muting navigation or traffic announcements

▷ To interrupt a navigation or traffic announcement, briefly press the left rotary knob during the announcement.

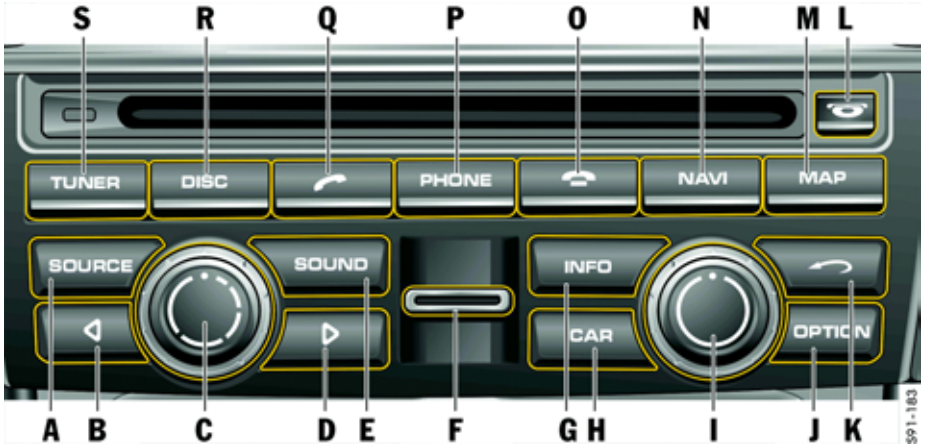
Selecting the audio source

Pressing the **SOURCE** button opens a window where you can set the current audio source.

The window closes again as soon as:

– you have set an audio source or
– several seconds pass and you have made no entry.

1. Press the **SOURCE** button.
2. Select the audio source you want on the display.



I Right rotary knob
(): Highlights a menu item
: Selects the highlighted menu item

J **OPTION** button

K Back button

L Eject/retract button for CDs and DVDs

M **MAP** main menu button

N **NAVI** main menu button

O End call button

P **PHONE** main menu button

Q Lift handset button

R **DISC** main menu button

S **TUNER** main menu button

Controls and their functions

The controls for the PCM are arranged below the display and around the CD/DVD slot.

A **SOURCE** button

B ◁ arrow button

C Left rotary knob
(): Sets the volume
(press briefly): Switches on or mutes the device
(press and hold): Switches the device on and off

D ▷ arrow button

E **SOUND** main menu button

F Slot for SIM card

G **INFO** main menu button

H **CAR** main menu button

A - SOURCE button

Pressing the **SOURCE** button opens a window where you can set the current audio source.

The window closes again when:

– you have set an audio source,
– several seconds pass and you have made no entry.

B - ◁ arrow button

By briefly pressing the arrow button you can:

– start a search downwards in radio or TV mode,
– skip a track in CD/DVD, USB or iPod mode.

Pressing the arrow button for several seconds in CD/DVD mode starts fast reverse.

C - Left rotary knob

Pressing and holding the left rotary knob switches the device on or off.

Turning the left rotary knob changes the following settings:

– volume of the active audio source,
– volume of a traffic announcement,
– volume of a voice control system announcement,
– volume when in hands-free mode during a telephone call,
– ringtone volume of the telephone during an incoming call,
– cancelling muting (turning the rotary knob clockwise).

Briefly pressing the left rotary knob executes the following functions:

– cancels navigation and traffic announcements,
– rejects an incoming telephone call,
– mutes the device,
– switches on the system.

D - ▷ arrow button

By briefly pressing the arrow button you can:

– start a search upwards in radio or TV mode,
– skip a track in CD/DVD, USB or iPod mode.

Pressing the arrow button for several seconds in CD/DVD mode starts fast forward.

E - SOUND main menu button

Pressing the **SOUND** button opens a menu where you can make the sound settings for the PCM.

F - Slot for the telephone SIM card

To use the internal telephone, you must insert the SIM card in the slot provided.

Alternatively, the SIM card of a mobile phone with the *Bluetooth*® SIM Access Profile can be used.

G - INFO main menu button

Pressing the **INFO** button displays various general information such as the current audio source, the date and time and the signal strength for your telephone network.

H - CAR main menu button

Pressing the **CAR** button opens an overview of various trip data.

I - Right rotary knob

Along with the touchscreen, the right rotary knob is the central control:

– Turn the rotary knob to highlight the menu item you want.
– Press to select a highlighted menu item.

J - OPTION button

Since not all of the operating options for a main menu can be shown on one display, the **OPTION** menu summarises various operating options for the main menus. You call up these operating options by pressing the **OPTION** button.

Instead of pressing the button you can also touch the tab of the same name on the display.

K- Back button

By pressing the Back button you can execute various functions.

Briefly press the button to:

– undo a selection in the menu,
– cancel a list selection.

Press and hold the button to:

– delete all characters already entered into an input menu.

L - Eject button

Pressing the button executes the following functions depending on the equipment of your PCM:

PCM without CD/DVD changer

– A CD or DVD inserted in the drive is ejected so it can be removed.

PCM with CD/DVD changer

– The CD/DVD changer menu is opened. Pressing the button again ejects the highlighted CD or DVD so it can be removed.
– If you press the button for several seconds and there are still no CDs/DVDs in the changer compartments, you will be prompted to fill the individual compartments one after the other.
– If you press the button for several seconds and the magazine compartments are at least partially full, all CDs or DVDs are ejected one after the other.

M - MAP main menu button

Pressing the **MAP** button opens the map view of the navigation function.

N - NAVI main menu button

Pressing the **NAVI** button opens the menu of the navigation function.

O - End call button

By pressing the End call button you can:

– reject an incoming telephone call or
– end an active call.

P - PHONE main menu button

Pressing the **PHONE** button opens the menu of the telephone function.

Q - Lift handset button

By pressing the Lift handset button you can:

– accept an incoming telephone call or
– call up the quick dial function.

R - DISC main menu button

Pressing the **DISC** button opens the menu for operating the CD, DVD, iPod, USB, AUX and AUX BT audio sources.

S - TUNER main menu button

Pressing the **TUNER** button opens the menu for radio mode.

Menu types and options for operation

The PCM display is a colour touchscreen. All menu functions, list entries and text input fields as well as the arrow symbols and scrollbars can be operated by lightly touching the corresponding location on the display.

What are the menu types?

Main menus

The range of functions of the PCM is divided between the following main menus:

– **TUNER**: radio main menu,
– **DISC**: disc main menu,
– **PHONE**: telephone main menu,
– **NAVI**: navigation main menu,
– **MAP**: map view,
– **SOUND**: sound settings,
– **INFO**: information menu as well as
– **CAR**: vehicle and trip data main menu.

Each of these main menus contains various submenus for a specific topic.

Option menus

Each of the eight main menus has an option menu where you find settings and other functions for the respective main menu.

Calling up and operating menu types

Calling up main menus

▷ To call up a main menu, press the appropriate button below the display.

You can switch from one main menu to another at any time.
When you return to a main menu, you return to the function you were using before exiting the menu. If you want to return to the top level of a main menu, you must press the relevant main menu button twice in succession.

Calling up option menus

▷ To call up an option menu, press the **OPTION** button.

- **or** -

▷ Touch the tab on the display with your finger.

Operating menus with the touchscreen

▷ Touch the individual menu items or symbols directly on the display.

If the menu functions cannot be operated by touching the display, it is because the touchscreen is deactivated. For further information, see “Switching the touchscreen on/off” on page 19.

Operating menus with the right rotary knob

Instead of operation on the touchscreen, you can also operate the menu items with the right rotary knob.

▷ Turn the right rotary knob to highlight a menu item.

▷ Press the right rotary knob to activate the highlighted menu item.

The process of highlighting and activating using the right rotary knob **or** touching the menu item on the display is referred to below as “**selecting**”.

Exiting menus

Returning to the next highest menu

▷ Press the Back button to cancel an operation and return to the next highest menu.

Returning to the main menu

▷ Press a main menu button to return to the corresponding main menu.

Returning to the top level of a main menu

▷ Briefly press the appropriate main menu button twice in succession to return to the top level of the main menu.

Operating lists

The following operating options are available to you for selecting a list entry:

▷ Touch the symbols and on the display.

- **or** -

▷ Touch the scrollbar between the two symbols and .

- **or** -

▷ Turn the right rotary knob .

Highlighted list entries are framed in orange.

Showing the first letter of list entries

To make it easier to find your way in long lists, you can show the first letter of list entries in the following lists:

– the phonebook,
– the list for the music search in the iPod or in USB mode,
– the track list in USB and MP3 disc mode or
– the destination memory in the navigation menu.

▷ Touch and hold one of the two symbols and for several seconds.

- **or** -

▷ Quickly turn the right rotary knob .

Only letters with corresponding entries in the list will be displayed.

Operating input menus

In many cases you can enter data into the PCM. This can be the case when entering an SMS message, a telephone number or a navigation destination, for example. The various input menus are customised to their respective operating situations.

▷ To enter data into an input menu, lightly touch the characters on the display.

- **or** -

▷ Highlight the characters by turning the right rotary knob and insert them by pressing the right rotary knob.

▷ To confirm and accept the data you have entered, select **OK**.

In addition to the letter fields, the input menus also provide a number of function fields for changing the character set displayed and for moving the cursor:

⇦ deletes the last character entered (if button is touched briefly)
- **or** -
deletes all characters entered (if button is touched and held)

✥ switches to positioning mode when composing text messages (SMS)

ABC switches to uppercase

abc switches to lowercase

123 switches to numbers and punctuation marks

@&# switches to special characters

switches to insertion mode when composing a text message

. inserts a period

, inserts a comma

: inserts a colon

SPACE inserts a space

CLEAR deletes **all** entries in the input field

Liste calls up a stored list, for example when entering an address in the navigation system

OK confirms the input and closes the input menu

Greyed out characters cannot be selected.

i In many cases the input menus are pre-sorted. This means that after you have entered at least three letters, only the letters for which there is an entry in a list are offered for selection.

Setting the layout for the keyboard of the input menu

The letter fields in the input menu can either be arranged alphabetically or like a computer keyboard.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Display PCM**"
   > "**Keyboard layout**".
4. Select one of the two options:
   – "**ABC**":
   The letter fields are arranged alphabetically.
   – "**QWERTY/QWERZ**":
   The letter fields are arranged like a computer keyboard.
   The chosen keyboard layout is set.

Sound settings

You can set the sound of your PCM for each audio source separately using the sound settings in the Sound menu. As soon as an audio source is selected, its sound settings are set automatically.

The range of displays and functions for the sound settings depends on the vehicle type and the equipment installed. In some cases, therefore, not all of the functions described here may be available.

Setting the bass

1. Press the **SOUND** button.
2. Select "**Bass**".
3. Make the setting you want by touching the two symbols and .

Setting the treble

1. Press the **SOUND** button.
2. Select "**Treble**".
3. Make the setting you want by touching the two symbols and .

Setting the balance

The **Balance** setting allows you to set the volume distribution between the left and right speakers.

1. Press the **SOUND** button.
2. Select "**Balance**".
3. Make the setting you want by touching the symbols , , and or by turning the right rotary knob.

Setting the fader

The **Fader** setting allows you to set the volume distribution between the front and rear speakers.

1. Press the **SOUND** button.
2. Select "**Fader**".
3. Make the setting you want by touching the symbols , , and or by turning the right rotary knob.

Setting the loudness

"**Loudness**" increases the sound volume by increasing the bass and treble frequencies.
This setting is particularly effective for low volumes and guarantees a pleasant sound.

1. Press the **SOUND** button.
2. Select "**Loudness**" to activate (☑) or deactivate (☐) the function.

Setting SDV (speed-dependent volume)

The "**SDV**" function automatically adjusts the audio playback volume as a function of the vehicle's speed.
You can set the degree to which the volume adjusts to the vehicle's speed on a scale from 0 (no increase in volume) to 5 (large increase in volume).

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SDV**".
4. Make the setting you want by touching the symbols △ and ▽.

Sound settings with BOSE® Surround Sound System

Setting surround

Activating "**Surround**" achieves a sound setting with greater spatial depth.
This permits the creation of a virtual surround sound with conventional stereo sources such as CDs, radio or MP3 formats, for example.
The function can be set separately for the individual audio sources.
The "**Surround**" function is generally activated with multi-channel sources such as 5.1 DVDs, for example.
It cannot be activated for the sources "**AM**" and "**TV**".

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Surround**" to activate (☑) or deactivate (☐) the function.

Setting linear

Selecting "**Linear**" switches the PCM from a bass-heavy setting (linear off) to a more neutral sound (linear on).

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Linear**" to activate (☑) or deactivate (☐) the function.

Setting AudioPilot®

If the "**AudioPilot**" function is activated, the noise level inside the vehicle is monitored. Background noise is analysed and the volume and dynamics of the music playback across the entire frequency spectrum is automatically adjusted.
An additional sound control feature is available for vehicles with convertible tops. It adjusts the music playback to the special requirements when driving with an open top.

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**AudioPilot**" to activate (☑) or deactivate (☐) the function.

Sound settings with Burmester® High-End Surround Sound System

Setting the listening position

The "**Listening position**" setting allows you to optimise the sound settings for the front or rear seats. If, on the other hand, you select the symmetrical setting, you achieve the best possible sound setting taking all seats into account.

1. Press the **SOUND** button.
2. Select "**Listening position**".
3. Select one of the following settings:
   – "**Front**",
   – "**Symmetrical**" or
   – "**Rear**".

Setting smooth

The "**Smooth**" function is used to precisely reduce overemphasized frequencies in the midrange and treble, which may be present in highly compressed music material. Typical examples include playing MP3 files with a low data rate or listening to an FM station with unfavourable reception conditions.
This function facilitates a relaxing, pleasant listening experience for these sources over a long period.

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET Burmester**".
4. Select "**Smooth**" to activate (☑) or deactivate (☐) the function.

Setting surround

Activating "**Surround**" achieves a sound setting with greater spatial depth.
This permits the creation of a virtual surround sound with conventional stereo sources such as CDs, radio or MP3 formats, for example.
The function can be set separately for the individual audio sources. The listening position is then set to "**Symmetrical**".
The "**Surround**" function is generally activated with multi-channel sources such as 5.1 DVDs, for example.
It cannot be activated for the sources "**AM**" and "**TV**".

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET Burmester**".
4. Select "**Surround**" to activate (☑) or deactivate (☐) the function.

Setting live

The "**Live**" function generates surround sound that sounds just like a live concert from any stereo music signal. This is achieved through the precise addition of the type of reverberation and tonal components normally found in concert halls.
The listening position is set to "**Symmetrical**" for this.

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET Burmester**".
4. Select "**Live**" to activate (☑) or deactivate (☐) the function.

Setting sound conditioner

If the "**Sound conditioner**" function is activated, the noise level inside the vehicle is monitored. Background noise is analysed and the volume and dynamics of the music playback across the entire frequency spectrum is automatically adjusted.
An additional sound control feature is available for vehicles with convertible tops. It adjusts the music playback to the special requirements when driving with an open top.

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET Burmester**".
4. Select "**Sound conditioner**" to activate (☑) or deactivate (☐) the function.

Configuring the PCM display

You can set various units, the date and time, the welcome display and the user language of the PCM in the "**SET PCM system**" menu.

Configuring display settings

Switching the display off

You can switch off or darken the display using the "**Switch off display**" menu.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Display PCM**"
   > "**Screen**".
4. Select "**Switch off display**".
5. Confirm the prompt that appears.

Switching the display back on

You can switch a display that is off back on at any time (if the touchscreen is active) by touching it.

▷ Touch anywhere on the screen with your finger.

- or -

▷ Press any button.

Choosing colours for the map view (day/night design)

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Display PCM**".
4. Select "**Day/night switchover**".
   The following options are then available for you to select:
   – "**Automatic**"
   Your PCM automatically switches from day design to night design as a function of the vehicle lighting.
   – "**Day**"
   Your PCM always remains set to the day design colours. This means the display colours are optimised for legibility.
   – "**Night**"
   Your PCM always remains set to the night design colours. The display colours are dimmed to prevent glare.
5. Set the option you want by selecting it.

Choosing the brightness of the display

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Display PCM**"
   > "**Screen**"
   > "**Brightness**".
4. You can set the brightness by selecting the two symbols and .

Switching the touchscreen on/off

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Display PCM**".
   > "**Screen**".
4. Select "**Touchscreen off**" to activate ( ) or deactivate ( ) the function.

Displaying the system version

You have the option of viewing the system version of your PCM.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Display PCM**"
   > "**System version**".
   The system version is displayed.

Setting the language

Adapting the language to the instrument cluster

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**PCM language**".
4. Select "**Automatic**".
   The language of the instrument cluster is set.

If the language of the instrument cluster is not available as a language in the PCM, the language "**English GB**" is set.

Selecting the language yourself

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**PCM language**".
4. Select the language you want.

Setting the units

Adapting the units to the instrument cluster

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**PCM units**".
4. Select "**Automatic**".
   The settings of the instrument cluster are set.

Setting the unit for consumption

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**PCM units**"
   > "**Consump.**".
4. Select one of the following units:
   – "**l/100km**",
   – "**km/l**",
   – "**mpg**" or
   – "**mpg (UK)**".

Setting the display unit for temperatures

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**PCM units**"
   > "**Temperature**".
4. Select either "**°C (Celsius)**" or "**°F (Fahrenheit)**".

Resetting personal settings

This menu item allows you to reset settings you have previously made.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**"
   > "**Reset PCM**".
4. Select one of the following options:
   – "**Factory settings**"
   Resets all settings to predefined values. Any data you entered (addresses, destinations and telephone numbers) is, however, retained.
   – "**Vehicle handover**"
   Resets all settings to predefined values and deletes the data you entered (addresses, destinations, telephone numbers, logbook as well as the recordings in the Sport display).
5. Confirm the relevant prompt by selecting "**Yes**".

TUNER

Radio 22
Calling up the main menu for radio mode 22
Tuning to stations 22
Storing stations on station buttons in the preset memories 23
Traffic programme (TP) 24
Making settings for radio mode 25
Switching RDS on/off 25
Switching regionalisation on/off 25
Switching RDS radio text on/off 25
Choosing a PTY (programme type) filter 26
Setting sorting criteria for the FM station list 26
TV 27
Calling up the main menu for TV mode 27
Tuning to TV stations 27
Storing TV stations 28
Showing the information window 29
Video text 29
Electronic Programme Guide 30
Making settings for TV mode 31
Setting sorting of the station list 31
Setting the reception country 31
Setting TV picture parameters 31

Radio

Calling up the main menu for radio mode

▷ Press the **TUNER** button repeatedly until the mode you want (**AM** - **FM** - **TV**) is highlighted in the bottom line.

You will see the main menu for the chosen mode together with the station buttons. If there are already stations stored on the station buttons, the names or frequencies of these stations are displayed.

If the station tuned to is broadcasting RDS signals (RDS = Radio Data System) in FM mode, you will see the information contained in these signals (e.g. station name, programme type and radio text) above the station buttons.
To find out more, please refer also to the sections “Switching RDS on/off” on page 25 and “Switching RDS radio text on/off” on page 25.

Tuning to stations

You have the following options for tuning to a station:

– using the station buttons,
– using the station list,
– via a station search or
– entering the frequency directly.

Tuning to stations using the station buttons

To be able to tune to a station using the station buttons, there must already be a station stored on a station button. To find out more, please refer to the section “Storing stations on station buttons in the preset memories” on page 23.

1. Press the **TUNER** button repeatedly until the mode you want is highlighted.
2. Briefly press the station button.
   The station stored on the station button is tuned to.

Tuning to stations using the station list

The station list contains all the stations that can currently be received. It is only available in FM mode.

1. Press the **TUNER** button repeatedly until “**FM**” is displayed.
2. Select “**Station list**”.
   The station list is opened. In addition to the station names, it also contains the respective programme types.
   The station currently tuned to is highlighted in colour.
3. Select a station.

Tuning to stations via a station search

▷ Start a search by pressing the arrow buttons ◁ and ▷.

The search stops at the next station in the waveband.

Tuning to stations by entering the frequency directly

1. Press the **TUNER** button repeatedly until "**FM**" is displayed.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Manual tune**".
   The input menu is opened. The frequency of the current station is displayed.
4. Tune to the frequency using one of the following options:
   – Entering it directly by touching the number buttons.
   - **or** -
   – Tuning to the next station from the station list by touching the symbols ◁ and ▷ on the display.
   - **or** -
   – Tuning to the next station from the station list by touching the stations shown on the left and right on the display.
   - **or** -
   – Turning the rotary knob ◖◉◗ to change the frequency upwards or downwards.

   As soon as a valid frequency is input, it is tuned to.

Tuning to stations by scanning

If you activate this function, each station found within the frequency range will be played for approx. 5 seconds.

1. Press the **TUNER** button repeatedly until the mode you want is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Start scan**".
   Each station within the frequency range is played for approx. 5 seconds.
4. Select "**Stop scan**" to tune to the scanned station.

Storing stations on station buttons in the preset memories

Setting the preset memory

There are six memory locations available in each of the preset memories. The preset memories for radio mode are:

– In FM mode:
  FM 1, **FM 2**, **FM 3**, **BEST FM** and **MIXED**.
– In AM mode:
  AM 1, **AM 2**, **AM 3** and **MIXED**.

The PCM automatically fills the station buttons for the Best FM preset memory at regular intervals with the stations with the strongest reception.

In contrast to all other preset memories, the **MIXED** preset memory can store stations from different modes. This means you can store stations from FM mode and AM mode as well as stations from TV mode here.

1. Press the **TUNER** button repeatedly until the mode you want (**FM** - **AM** - **TV**) is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Preset memory**".
   The available preset memories are listed.
4. Select the preset memory you want.
5. Touch the **TUNER** tab in the header again.

If you briefly touch the preset memory displayed in the main menu, you will likewise switch to another preset memory.

Choosing a station in the station list and storing it

1. Press the **TUNER** button repeatedly until "**FM**" is displayed.
2. Select "**Station list**".
3. Select the station entry you want by pressing and holding it for several seconds.
   The station buttons are displayed and the station previously chosen is shown in the information window.
4. To store the station on a station button, select the station button you want.
   The station list is displayed again.

Storing via an automatic station search (autostore)

The automatic station search is only available for the preset memories **FM 1**, **FM 2**, **FM 3** as well as **AM 1**, **AM 2** and **AM 3**.

1. Press the **TUNER** button repeatedly until the mode you want (**FM** - **AM** - **TV**) is highlighted.
2. Set the preset memory if applicable (> page 23).
3. Press and hold the "**Autostore**" menu item.
   The search is activated. It stores the six stations with the strongest reception and tunes to the strongest station.

Storing stations manually

1. Press the **TUNER** button repeatedly until the mode you want (**FM** - **AM** - **TV**) is highlighted.
2. Tune to the station (> page 22).
3. Set the preset memory if applicable (> page 23).
4. Press and hold the station button for a few seconds.
   As soon as the station is stored on the station button, the station name or the station frequency is displayed on the button and you hear a signal tone.

Traffic programme (TP)

Various FM radio stations broadcast traffic messages in addition to their radio programmes. The broadcasting stations are responsible for the quality of these traffic messages. For that reason, no liability can be accepted for the completeness and correctness of the information.

Traffic messages are part of the RDS signals and are not available everywhere. To find out more, please refer also to the sections "Switching RDS on/off" on page 25 and "Displaying traffic messages (TMC)" on page 109.

Switching the traffic programme on

1. Press the **TUNER** button repeatedly until "**FM**" is highlighted.
2. Select "**Traffic prog.**" to activate (☑) or deactivate (☐) the function.
   When the traffic programme is switched on, the abbreviation TP (**T**raffic **P**rogramme) is displayed in the bottom line and you hear the traffic messages regardless of the audio source that is currently active.

Setting the Traffic prog. volume

The traffic programme volume refers to the volume at which the traffic programme announcements are output.
It specifies the minimum volume as a function of the volume of the audio source currently selected.

1. Press the **SOUND** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Traffic prog.**".
4. Make the setting you want on the scale by touching the two symbols ▲ and ▼.

Making settings for radio mode

Switching RDS on/off

The PCM is capable of receiving RDS signals (RDS = Radio Data System) in FM mode. It supports the following functions:

– station name,
– programme type (PTY),
– traffic programme,
– radio text as well as
– detection of alternative frequencies.
(Radio stations transmit programmes with the same programme content on different frequencies in different regions.)

You can switch tracking of these alternative frequencies on or off in the Set menu.

1. Press the **TUNER** button repeatedly until "**FM**" is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET FM**".
4. Select "**RDS**" to activate (☑) or deactivate (☐) the function.

Switching regionalisation on/off

When RDS (tracking of the alternative frequencies) is active, regionalisation can additionally be switched on or off.
If stations have a station chain with varying regional programme contents, switching on regionalisation prevents switching between the different stations.

1. Press the **TUNER** button repeatedly until "**FM**" is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET FM**".
4. Select "**Regional**" to activate (☑) or deactivate (☐) the function.

Switching RDS radio text on/off

1. Press the **TUNER** button repeatedly until "**FM**" is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET FM**".
4. Select "**Radio text**" to activate (☑) or deactivate (☐) the function.

Choosing a PTY (programme type) filter

RDS stations can broadcast the station's programme type (PTY).
The programme type allows stations to be classified based on their genre, for example "pop", "rock" or "news".
If a programme type is selected, only stations that correspond to the selected programme type are displayed in the FM station list.

You can select as many different programme types in a list as you wish.

1. Press the **TUNER** button repeatedly until "**FM**" is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET FM**" > "**PTY filter**".
4. Select the programme types you want for sorting (☑) or deselect those you wish to omit (☐). By selecting "**Activate all**" you can select (☑) or deselect (☐) all the programme types in the list.

Setting sorting criteria for the FM station list

The FM station list can be sorted according to various criteria. You can set the sorting as follows:

1. Press the **TUNER** button repeatedly until "**FM**" is highlighted.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET FM**".
4. Select "**Sorting criteria**".
   Various radio buttons are then available for you to select:
   - **Alphabetical**: The station list is sorted alphabetically.
   - **Genre (PTY)**: The station list is sorted according to programme type (PTY).
     If a programme type is selected, only stations that correspond to the selected programme type are displayed in the FM station list. Only after selecting "**Activate all**" in the PTY filter list are all stations that can be received listed.
   - **Station strength**: The station list is displayed sorted according to station strength. Stations with good reception are shown at the top of the list.
   - **Last stations**: The station list shows the stations listened to for at least two minutes. The last station listened to is shown at the top of the list.
   - **Frequency**: The station list is displayed sorted according to the order of the stations in the frequency band.
5. Set the sorting option you want by selecting it.

TV

The standard TV on the PCM can receive non-encrypted terrestrial analogue and digital (DVB-T) programmes. Depending on the country and reception area, only analogue, digital or a mixture of analogue and digital programmes may be available. If a programme is simultaneously received in both analogue and digital forms, the TV tuner automatically selects the higher-quality of the two.

In some areas, DVB-T programmes are also broadcast without picture content. These are characterised by an additional note symbol.

The activation of the automatic hatchback as well as some other vehicle functions may sporadic cause temporary restrictions of the TV reception.

WARNING!

Accident hazard. For your own safety, no TV picture or video text can be shown during driving for legal reasons.

- ▷ To receive a TV picture, the vehicle must be stopped.
- ▷ In some countries, the parking brake must also be engaged.

Calling up the main menu for TV mode

▷ Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.

To use TV mode, you must first tune to a TV station. You can do this via a station search or using the TV menu.

You can return from the TV picture of the current station to the main menu for TV mode at any time by touching the display or pressing the Back button ↩.

Tuning to TV stations

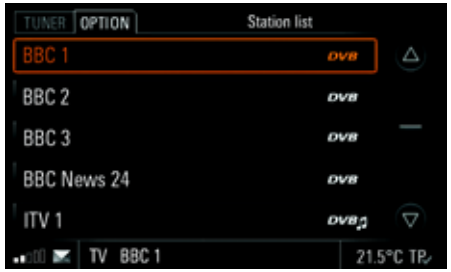
Displaying the TV picture

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Touch the information area in the TV menu (above the station buttons on the display). The TV picture of the TV station currently tuned to is shown.

Tuning to stations using the station buttons

Station buttons must already have TV stations stored before they can be used to tune to a station. To find out more, please refer to the section "Storing TV stations" on page 28.

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Briefly press the station button. The station is tuned to and its TV picture displayed. An information window appears for about 3 seconds.



Tuning to stations using the station list

The station list provides details of the stations that can currently be received.
Depending on the setting, the station list is arranged alphabetically, based on reception quality or based on the last stations. To find out more, please refer to the section “Making settings for TV mode” on page 31.

1. Press the **TUNER** button repeatedly until the “**TV**” mode is highlighted in the bottom line.
2. Select “**Station list**”.
3. Select the TV station or the DVB-T radio station you want.
   The station is tuned to and its TV picture displayed.

The digital programmes can also be selected using the EPG list.
To find out more, please refer to the section “Electronic Programme Guide” on page 30.

Storing TV stations

Each of the preset memories, **TV 1**, **TV 2**, **TV 3** and **MIXED**, has six memory locations available.

In contrast to all other preset memories, the **MIXED** preset memory can store stations from different modes. Here, you can manually store stations from FM/AM mode as well as stations from TV mode.

Storing stations manually

1. Press the **TUNER** button repeatedly until the “**TV**” mode is highlighted in the bottom line.
2. Tune to a TV station (> page 27).
3. Press and hold the station button for a few seconds.
   As soon as the TV station is stored on the station button, the station name is shown on the button.

Storing via an automatic station search

The automatic station search is only available for the preset memories **TV 1**, **TV 2** and **TV 3**.

1. Set “**TV**” mode.
2. If necessary, set the preset memory as follows:
   a. Press the **OPTION** button or touch the tab of the same name in the header.
   b. Select “**Preset memory**”.
      The available preset memories are listed.
   c. Select the preset memory you want.
   d. Touch the **TUNER** tab in the header again.

You can likewise change the preset memory by touching “**TV 1**”, etc. in the TV main menu.

3. The set preset memory now appears after the “**Autostore**” menu item.
   Select the menu item.
   The search starts. It stores the six programmes with the strongest reception and switches to the strongest programme.

Showing the information window

▷ Press the right rotary knob while in TV mode.
The information window is called up together with the "**Station list**" menu item.

While for digital programmes it shows details about the programme currently active, for analogue programmes the information window only contains the name of the station plus the current time.

The various information can, however, only be displayed if the relevant signal is being broadcast by the station.

Video text

Calling up video text

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Video text**".
The video text display appears. When called up for the first time, the programme page "100" is shown.

Not all stations transmit a video text signal.

Selecting a video text page

1. Touching the display opens a bar for entering the numbers directly.
2. Touch the appropriate digits on the display. After the third digit is entered, the video text search begins and the video text page is shown. The bar for entering numbers is hidden.

If the "**Video text via TV**" function is activated, the video text picture is overlaid onto that of the TV programme. To find out more, please refer to the section "Placing video text over the TV picture" on page 30.

Zooming into a video text page

▷ Call up an enlarged view of the upper half of the display by turning the right rotary knob. Turn the knob again to switch to an enlarged view of the lower half of the display.

▷ Turn once more to return to the normal page view.

Placing video text over the TV picture

If you activate this function, the video text page is overlaid transparently over the picture of the current TV programme.

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**".
4. Select "**Video text via TV**" to activate (☑) or deactivate (☐) the function.

Electronic Programme Guide

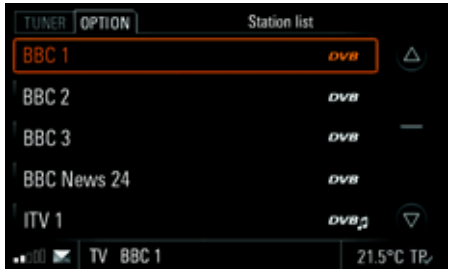
The PCM features an Electronic Programme Guide, which contains various information about the digital programmes. The programmes are listed in chronological order.

Information (station, progress bar, end time and name of current programme) about programmes that are currently playing is shown at the top of the list. This is followed by information (station, start/end time, names of following episodes) for the subsequent programmes.

Please note that **only digital channels** transmit EPG data. This service is not available for analogue channels.

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**EPG list**".
   The Electronic Programme Guide appears.
   Selecting an entry in the **EPG list** tunes to the corresponding programme and shows its TV picture.

The menu item is greyed out if no EPG data is being received.
You can also view the EPG data available for the current programme in the **INFO** menu by selecting the "**Details TV**" menu item. To find out more, please refer to the section "Displaying detailed information about the active audio source" on page 111.



Making settings for TV mode

Setting sorting of the station list

The TV station list can be sorted according to various criteria. You can set the sorting as follows:

- **Alphabetical**: When sorted alphabetically, DVB-T TV stations are shown first, followed by analogue TV stations. DVB-T radio stations are at the bottom of the list.
- **Station strength**: When sorted based on station strength, the stations are listed in descending order of reception quality.
- **Last stations**: The station list shows the stations tuned to for at least two minutes. Stations that cannot be received are not displayed.

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Sorting criteria**".
4. Select the sorting you want.

Setting the reception country

Information about the available channel range is stored for the PCM in the country setting.
If you take your vehicle abroad and wish to use the TV tuner, you should first set the correct entry in the country list.

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Reception country**".
   The country list is opened. It is sorted alphabetically. If the correct region is not available in the list, you can choose a setting with a symbol representing the correct TV standard.

A complete list of the reception countries can be found in the section "Affiliated countries for TV tuner country settings" on page 203.

Setting TV picture parameters

Setting the Brightness

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Picture param. - TV**"
   > "**Brightness**".
4. Make the setting you want by touching the two symbols ▲ and ▼.

Setting the Contrast

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Picture param. - TV**"
   > "**Contrast**".
4. Make the setting you want by touching the two symbols ▲ and ▼.

Setting the Colour

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Picture param. - TV**"
   > "**Colour**".
4. Make the setting you want by touching the two symbols ▲ and ▼.

Setting the Format

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Picture param. - TV**"
   > "**Format**".

   The following options are then available for you to select:
   – "**Automatic**"
   The picture format being received by the TV tuner is evaluated and its on-screen display is adjusted accordingly (automatic format switching between 4:3 and 16:9).
   – "**4:3**"
   The picture is shown in such a way that no image contents are lost.
   – "**16:9**"
   The picture is expanded to cover the entire width of the display. The picture is cropped at the upper and lower edges of the display. This setting is particularly useful for programmes that are broadcast with a black border at the upper and lower edges of the display.
4. Select the setting you want.

With the **Automatic** setting, an ID broadcast by the station in question is analysed.
Some stations do not broadcast this ID correctly, with the result that the PCM cannot implement format settings automatically.
Under certain circumstances, poor reception can lead to the ID not being analysed properly.
In such cases, please set a fixed format (4:3 or 16:9).

Setting the tint (special feature of NTSC stations)

The **Tint** display option is additionally available when receiving signals from NTSC stations (**N**ational **T**elevision **S**ystem **C**ommittee: colour TV standard in the USA and Japan, amongst other countries). This allows colour distortions related to transmission to be corrected.

1. Press the **TUNER** button repeatedly until the "**TV**" mode is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET TV**"
   > "**Picture param. - TV**"
   > "**Tint**".
4. Make the setting you want by touching the two symbols ▲ and ▼.

DISC

Loading and ejecting CDs/DVDs 36
Calling up the main menu for CD/DVD mode 37
Selecting a CD/DVD 37
Selecting a track 37
Selecting a track (MP3 CD/DVD) 37
Selecting a chapter in video DVD mode 38
Setting the audio format for video DVD 38
Setting audio groups (DVD-Audio) 38
Naming a CD 38
Skipping to the previous/next track 39
Fast forward/reverse 39
Repeating a track 39
Switching the shuffle function on/off 39
Starting/stopping scanning 39
Searching for music in MP3 mode (full text search) 39
iPod* 40
Calling up the main menu for iPod mode 40
Searching for music 40
Playlists 41
Track list 42
Skipping to the previous/next track 42
Fast forward/reverse 42
Repeating a track 42
Switching the shuffle function on/off 42
Adapting the volume for iPod mode 42
USB 43
Calling up the main menu for USB mode 44
Searching for a track 44
Track list 46
Skipping to the previous/next track 46
Fast forward/reverse 46
Repeating a track 46
Switching the shuffle function on/off 46
Starting/stopping scanning 46
Calling up an external audio source 47
Activating the interface 47
Adapting the volume for an external audio source 47
External Bluetooth® audio source 48
Calling up an external Bluetooth® audio source/starting playback 48
Activating the interface 48
Skipping a track 49
Fast forward/reverse 49
Repeating a track 49
Switching the shuffle function on/off 49
Starting/stopping scanning 49
Bluetooth® settings 49
Calling up Bluetooth® settings 49
Switching Bluetooth® on/off 49
Adding a new Bluetooth® device 50
Establishing a connection from an external Bluetooth® device 50
Setting visibility 50
Authorised Bluetooth® devices 50

CD audio/DVD-Audio/DVD-Video

CAUTION

- ▷ Always touch the CD/DVD at the edges only. Never touch the side without writing and keep the CD/DVD clean.
- ▷ Never stick anything on the CD/DVD.
- ▷ Protect the CD/DVD against direct sunlight and from heat sources such as heaters, etc.
- ▷ Before playing the CD/DVD, it should be cleaned with a special, commercially available cleaning cloth, wiping from the centre outwards. Solvents such as petrol, thinners or other commercially available cleaning agents and anti-static sprays must not be used.
- ▷ Do not bend the CD/DVD.

The system may not be able to play copy-protected CDs/DVDs or CDs with CD-ROM sections that do not correspond to the audio CD standard.

Notes on copyright

You are only permitted to create copies of CDs/DVDs for your own private use. The copyright exceptions do not cover circulation of the duplicated CDs/DVDs to third parties.

The music tracks that you can create for and play in MP3 mode are generally copyright-protected under the applicable international and national laws. In many countries, the reproduction of copyrighted material is not permitted, even if only for personal use, without the express prior consent of the copyright holder. Please check the current copyright laws for your country and comply with them. These restrictions do not apply, for example, to your own compositions and recordings or to recordings for which authorisation has been obtained from the copyright holder.

The most current laws always apply!

Notes on the media supported

To avoid problems when playing your CDs/DVDs, please note the following:

– Permissible media:
  CD-R and CD-RW (650 MB and 700 MB)
  DVD+R and DVD+RW
  DVD-R and DVD-RW
– Permissible file systems:
  CD-ROM (Yellow Book)/ISO 9660 Level 1/ Joliet for CD (filenames max. 64 characters)
– Permissible file structures:
  The maximum number of tracks per disc is 4,000.
  A disc may hold a maximum of 2,000 folders in total.
  Each folder in turn may contain a maximum of 1,000 tracks.
  The maximum directory depth is 11 levels.

No warranty is accepted for:

- poor quality user-burned CDs/DVDs,
- CDs of other formats,
- Mixed Mode CDs,
- CD-Extra CDs as well as
- multi-session CDs/DVDs.

CDs/DVDs that have not been finalised cannot be played.

Insertion of a non-standard CD/DVD format such as DVD-Plus (one side audio CD, the other side DVD) may lead to **irreparable damage of the drive** due to the greater thickness of the media.

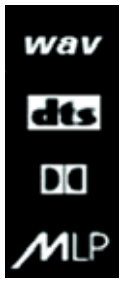
Supported audio formats

The PCM supports the following audio formats:

MP3 *
(MPEG1 Audio Layer 3)

WMA *
(Windows Media Audio)

AAC-LC *(Low Complexity Advanced Audio Coding)



WAVE file format *

DTS **
(Digital Theater Systems)

Dolby® Digital ***

Meridian Lossless Packing ****

*) No guarantee can be made that all MP3, WMA, AAC and WAV formats can be played back, due to the wide variety of different audio programmes (encoders) available.

**) Manufactured under licence in accordance with US patents No. 5.451.942, 5.956.674, 5.974.380, 5.978.762, 6.487.535 and other patents issued and registered in the USA and internationally. DTS and DTS Digital Surround are registered trademarks and the DTS logos and the DTS symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All rights reserved.

***) The double D symbol is a legally protected trademark of Dolby Laboratories.

****) MLP Lossless™ is a trademark of Dolby Laboratories.

Notes on DVD mode

Video DVDs generally feature a regional code. Information on this can usually be found either on the DVD itself or on the DVD sleeve.
The CD/DVD drive of the PCM detects the respective regional code of the video DVD inserted. As per the “Regional Protection Code”, it allows you to change the regional code up to five times. Please contact your Porsche partner to find out how to change the regional code.
You will find a list of regional codes in the section “Regional codes for video DVDs” on page 203.

When playing video DVDs, only playback of the audio information is supported.

Some of the video DVDs you find in stores may not conform to the standards. You may experience sound or other playback problems with these DVDs.

Discs, DVD authoring software, burning software and burners are widely available. Due to this wide variety, we cannot guarantee that the CD/DVD drive of the PCM will be able to play every user-burned video DVD.

Loading and ejecting CDs/DVDs

Loading a disc in a PCM with CD/DVD drive

▷ Insert the disc into the CD/DVD slot with the printed side facing **upwards**.

Incorrectly inserted CDs/DVDs will not be played.

Ejecting a disc in a PCM with CD/DVD drive

▷ Briefly press the button.
The CD/DVD is stopped and ejected.

The system automatically switches to the current audio source in TUNER mode as soon as you have removed the CD/DVD from the magazine compartment.

Calling up the CD/DVD changer menu

▷ Briefly press the button.

The CD/DVD changer menu is displayed. A button is displayed for each compartment in the changer magazine.

If there is a CD or DVD in the compartment, you will see the title of the CD/DVD on the button (if available).
If the title of the CD/DVD is not available, the format of the disc (CD or DVD) is indicated instead.
If a compartment is empty, "**empty**" is shown beside the compartment number on the display.

Loading a disc in a PCM with CD/DVD changer

Incorrectly inserted CDs/DVDs will not be played. To allow for the fastest possible changes, you should load the magazine successively beginning with compartment 1.

1. Briefly press the button.
   The CD/DVD changer menu is displayed.
2. Select an empty magazine compartment.
   You are then prompted to insert a disc.
3. Push the CD/DVD into the slot.
   The printed side of the CD/DVD must face **upwards**.
   Incorrectly inserted CDs/DVDs will not be played.

"**DISC**" flashes on the button. As soon as the CD/DVD is detected, it is scanned and the current track is shown on the display.

Loading all discs in a PCM with empty CD/DVD changer

▷ Press and hold the button or any magazine compartment for several seconds.
All magazine compartments are moved into position one after the other and at each stage you are prompted to insert a CD/DVD.

Ejecting a disc in a PCM with CD/DVD changer

1. Briefly press the button.
   The CD/DVD changer menu is displayed.
2. Select the magazine compartment you want.
   The CD/DVD is stopped if necessary and ejected.

3. Remove the CD/DVD.
   If you do not insert another CD/DVD in this magazine compartment, the CD/DVD in the next occupied compartment is played.

If you do not remove the CD/DVD from the slot, the PCM will automatically retract it after a short while.

Ejecting all discs in a PCM with CD/DVD changer

▷ Press and hold the ⏏ button or any magazine compartment for several seconds.
All discs are ejected in sequence.

The system automatically switches to the current audio source in TUNER mode as soon as you have removed the last CD/DVD from the magazine compartment.

Calling up the main menu for CD/DVD mode

▷ Press the **DISC** button repeatedly until the "**DISC**" audio source is highlighted in the bottom line.

Selecting a CD/DVD

1. Press the **DISC** button repeatedly until the "**DISC**" audio source is highlighted in the bottom line.
2. Select "**Disc selection**".
   A list of the available CDs/DVDs is opened.
3. Select the CD/DVD you want.
   Playback is started at the beginning of the disc.

Selecting a track

You can select a track directly using the track list. The track list shows the track numbers and, if available, the track names.

1. Press the **DISC** button repeatedly until the "**DISC**" audio source is highlighted in the bottom line.
2. Select "**Track list**".
3. Select the track you want.

Selecting a track (MP3 CD/DVD)

If the disc currently playing is an MP3 CD/DVD, the track list shows the names of the root directories as well as the subdirectories.

The following symbols are used in the track list to make it easier for you to navigate within the directory structure of the MP3 CD/DVD:

– Subdirectory
  Selecting this list entry opens the corresponding subdirectory and displays the directories and tracks it contains.
– Higher-level directory
  Selecting this list entry or pressing the ↩ button displays the higher-level directory.
– Playlist
  Selecting this list entry allows you to play lists of tracks in m3u format you have created on your computer and burned to the CD/DVD.

1. Press the **DISC** button repeatedly until the "**DISC**" audio source is highlighted in the bottom line.
2. Select "**Track list**".
3. Select the directory or playlist you want.
4. Select the track you want.

If the directory structure of the folders is very deep or the number of files is very large, it may not be possible to display all the folders or tracks.
File formats that cannot be played will not be displayed.
To find out more, please refer also to the section “Notes on the media supported” on page 34.

Selecting a chapter in video DVD mode

When playing video DVDs, only playback of the audio information is supported.

1. Press the **DISC** button repeatedly until the “**DISC**” audio source is highlighted in the bottom line.
2. Select “**Track list**”.
3. Select the chapter you want.

- **or** if you want to choose a chapter in another film title -

3 Select the first list entry with the “higher-level directory” symbol .
The list of video titles is opened.
4. Select the video title you want.
5. Select the chapter you want.

Setting the audio format for video DVD

1. Press the **DISC** button repeatedly until the “**DISC**” audio source is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**DVD audio format**”.
A list of the available audio formats is opened.
4. Select the audio format you want.

After selecting a new audio format from the list, playback is resumed at the same point in the current chapter if possible. If this is not possible, the current chapter is played once again from the beginning.
All following tracks are also played with the newly set audio format. If this is not possible with a track, playback reverts to the originally set audio format. This format is then retained for the subsequent tracks.

Setting audio groups (DVD-Audio)

1. Press the **DISC** button repeatedly until the “**DISC**” audio source is highlighted in the bottom line.
2. Select “**Track list**”.
3. Select the first list entry with the “higher-level directory” symbol .
The list of audio groups is opened.
4. Select the audio group you want.
5. Select the track you want within the audio group.

Naming a CD

This function is only available for audio CDs and DTS-CDs without CD text.
A maximum of 100 CDs can be named.

1. Press the **DISC** button repeatedly until the “**DISC**” audio source is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**Name CD**”.
The input menu is opened.
4. Enter the name you want for the CD.

Skipping to the previous/next track

If the current track has been playing for longer than 10 seconds, pressing the ◁ button resumes playback from the start of the current track.
If the current track has not yet been playing for 10 seconds, playback is resumed from the start of the previous track.

▷ If you want to skip to the next track when a CD/DVD is playing, briefly press the ▷ button.

▷ If you want to skip back to the start of the track when a CD/DVD is playing, briefly press the ◁ button.

Fast forward/reverse

▷ Press and hold the ▷ button or ◁ button for a few seconds when a CD/DVD is playing until the position you want is reached.

Repeating a track

Activating this function repeats the current track or chapter (video DVD mode).

▷ Select "**Repeat**" while a CD/DVD is playing to activate (☑) or deactivate (☐) the function.

- **or** to switch it off -

▷ Press the ◁ or ▷ button.

Switching the shuffle function on/off

When you activate this function, the current track is played to the end. The current CD/DVD is then played in random order.

▷ Select "**Shuffle**" while a CD/DVD is playing to activate (☑) or deactivate (☐) the function.

Starting/stopping scanning

When this function is activated, each track on the CD/DVD or each chapter on a video DVD is played for approx. 10 seconds.

1. Press the **DISC** button repeatedly until the "**DISC**" audio source is highlighted in the bottom line.
2. Select "**Start scan**" to activate the function.
3. Select "**Stop scan**" to deactivate the function. The CD/DVD track that has started playing will continue to play.

The function is automatically stopped as soon as a track is selected directly in the track list.

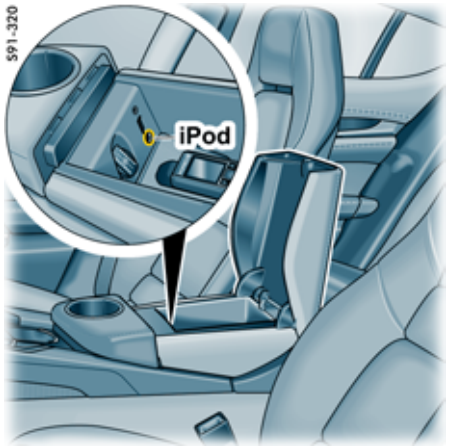
Searching for music in MP3 mode (full text search)

The music search in MP3 mode is based on a full text search of the file names.

1. Press the **DISC** button repeatedly until the "**DISC**" audio source is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Full text search**". The input menu is opened.

ⓘ The menu item is only available when the track list is available.

4. Enter at least three letters of the search term.
5. Call up the search results by selecting "**List**".
6. Select the track you want in the result list. The track is played.



iPod jack

iPod*

You can connect one of the following iPod models with your PCM via a jack in the centre console of your vehicle using the connecting cable supplied:

- iPod 4th generation,
- iPod 5th generation (video),
- iPod nano,
- iPod nano 2nd generation as well as
- iPod mini,
- iPod photo,
- later iPod models**.

*) iPod is a trademark of Apple Computer, Inc. and is registered in the USA and in other countries.

) Compatibility of later iPod models with the PCM **cannot be guaranteed.

If you encounter any problems it may be necessary to update your iPod's firmware.

It is recommended not to leave an iPod in the vehicle for long periods of time as extreme ambient conditions (temperature, humidity) can occur in vehicles.
The iPod charges during use.

For proper operation of an iPod or iPhone on the PCM, including the charging function, both connectors must be attached to the media interface.

Calling up the main menu for iPod mode

▷ Press the **DISC** button repeatedly until the "**iPod**" audio source is highlighted in the bottom line.

The "**iPod**" mode is only displayed if a corresponding device is connected to the interface.

Searching for music

You can search for specific tracks on your iPod. The following categories are available to you for this:

– **Artists**
Displays a list of all available artists. If you select an artist from the list, the number of tracks and albums available for the subsequent search is updated and displayed after the menu item.

– **Albums**

  Displays a list of the available albums. If you have already selected an artist, only albums by that artist will be available for the subsequent search.
  If you select an album from the list, the number of tracks available for the subsequent search is updated.

– **Track**

  Displays a list of all tracks stored on the iPod. If you have already selected a category (e.g. “Artists”), the list of tracks will have been automatically updated and only tracks by that artist will be available.

– **Music genres**

  The tracks stored on the iPod are generally assigned to a music genre (provided the “Genre” ID3 tag has been assigned). These music genres can also be used as categories for a search.
  If you have selected a music genre, the artists, albums and tracks available for the subsequent search are updated.

Once you select a category, higher-level categories are no longer available. After you select an artist, for example, the “**Music genres**” category can no longer be selected.
Selecting “**Start playback**” ends the search and plays the tracks in accordance with your previous selection.

Below is an example of how to perform a search for the tracks of a specific artist and album.

1. Press the **DISC** button repeatedly until the “**iPod**” audio source is highlighted in the bottom line.
2. Select “**Find music**” in iPod mode.
3. Select “**Artists**”.
   A list of all the artists whose tracks are stored on the iPod is opened.
4. Select the artist you want in the list.
5. Select “**Albums**”.
   A list of all the albums by the selected artist stored on the iPod is opened.
6. Select the album you want in the list.
   The number of tracks on this album is now shown in brackets on the “**Track**” button.
7. Select “**Start playback**”.
   The tracks on the selected album are now played one after the other.

The tracks from a music search are displayed in the track list. To find out more, please refer also to the section “Track list” on page 42.
The iPod determines the sorting of the lists.

Playlists

Selecting this list entry allows you to play lists of tracks you have stored on your iPod.

1. Press the **DISC** button repeatedly until the “**iPod**” audio source is highlighted in the bottom line.
2. Select “**Playlists**”.
   The menu is opened.
3. Select the playlist you want.
   The tracks in the list are played one after the other. After the last track is played, the playlist is automatically repeated.

Track list

If you have performed a music search or selected a playlist, the corresponding tracks are displayed in the track list.

The iPod determines the sorting of the lists.

1. Press the **DISC** button repeatedly until the "**iPod**" audio source is highlighted in the bottom line.
2. Select "**Track list**".
   The menu is opened.
3. Select the track you want.
   The track is played.

Skipping to the previous/next track

- If you want to skip to the next track when the iPod is playing, briefly press the ▷ button.
- If you want to skip back to the start of the track when the iPod is playing, briefly press the ◁ button.

Fast forward/reverse

- Press the ▷ button or ◁ button when the iPod is playing until the position you want is reached.

Repeating a track

Activating this function repeats the current track.

- Select "**Repeat**" when the iPod is playing to activate (☑) or deactivate (☐) the function.

- **or** to switch it off -

- Press the ◁ or ▷ button.

Switching the shuffle function on/off

When you activate this function, the current track in the music selection is played to the end. All tracks in the current music selection are then played in random order.

- Select "**Shuffle**" when the iPod is playing to activate (☑) or deactivate (☐) the function.

Adapting the volume for iPod mode

You will only be able to access the "**SET DISC / AUX**" menu if there is at least one audio source from the DISC area available.

1. Press the **DISC** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET DISC / AUX**"
   > "**Volume adaptation**"
   > "**Volume iPod**".
4. Make the setting you want by selecting the symbols △ and ▽ or by turning ↻ the right rotary knob.

USB jack

USB

You can connect a USB memory stick or a USB MP3 player containing audio files to the USB interface of the PCM in the centre console.

You can use it to:

- play audio data from your USB stick
  (permitted formats: MP3, WAV, WMA and AAC-LC),
- download data from the Sport display as well as
- download data from the PCM logbook.

i You cannot connect USB devices that require the installation of special drivers. The use of a USB hub is not permitted.

i Compatibility with all memory sticks and MP3 players **cannot** be guaranteed due to the rapid rate at which USB media are developing.

i USB devices with increased power requirements (e.g. external hard drives) cannot be operated on the USB interface in some circumstances.

i It is recommended not to leave USB devices in the vehicle for long periods of time as extreme ambient conditions (temperature, humidity) can occur in vehicles.

Notes on the media supported

To avoid problems when playing your USB devices, please note the following:

- Permissible media:
  USB mass storage device,
  USB MP3 player (to MTP standard)
- Permissible file systems:
  USB devices with the file systems FAT 16 and FAT 32 are supported.
- Permissible USB standards:
  USB devices that meet the USB 2.0 specifications are supported.
- Permissible file structures:
  Up to 10,000 tracks are supported on the USB device.

Calling up the main menu for USB mode

▷ Press the **DISC** button repeatedly until the "**USB**" audio source is highlighted in the bottom line.

The "**USB**" mode is only displayed if a corresponding device is connected to the interface.

The first time USB mode is activated, the audio files in the USB memory are loaded. The menu cannot be used and the menu items are greyed out during this process. Playback begins as soon as the first tracks are found on the USB device.

Searching for a track

You can search for specific tracks on your USB device. The following options are available to you for this:

– search for tracks using categories ("**Find music**"),
– search for similar tracks to the track currently playing using categories ("**Play more from**")

and

– search for tracks using a "**Full text search**".

The music search only works if metadata for the tracks (ID3 tags) is available.
A database is created in the PCM for the music search. This can take a few minutes.

The tracks from a music search are compiled in a playlist named "**Tracks from music search**" under the "**Track list**" menu item.

Searching for tracks by category

You can compile the tracks you want using the following categories:

– **Artist**

  Displays a list of all artists. If you select an artist from the list, the number of tracks available for the subsequent search is updated.
  If you select "**All artists**" you can also search using the input menu.

– **Album**

  Displays a list of the available albums. If you have already selected a category (e.g. "Artists"), only albums by that artist will be available for the subsequent search.
  If you select an album from the list, the number of tracks available for the subsequent search is updated.
  If you select "**All albums**" you can also search using the input menu.

– **Track**

  Displays a list of all tracks stored on the USB device. If you have already selected a category (e.g. "Artists"), the list of tracks will have been automatically updated and only tracks by that artist will be available.
  If you select "**All tracks**" you can also search using the input menu.

– **Music genres**

  The tracks stored on the USB device are generally assigned to a music genre (provided the "Genre" ID3 tag has been assigned). These music genres can also be used as categories for a search.

These categories can be used either individually or in succession for the search. The remaining number of entries is updated.
In contrast to the music search in iPod mode, the categories can be set in any order.
Selecting "**Start playback**" ends the search and plays the tracks in accordance with your previous selection.

Below is an example of how to perform a search for tracks by a specific artist on a specific album.

1. Press the **DISC** button repeatedly until the "**USB**" audio source is highlighted in the bottom line.
2. Select "**Find music**" in USB mode.
3. Select "**Artists**".
   A list of all available artists whose tracks are stored on the USB device is opened. Highlight the artist you want by selecting in the list.
4. Select the artist you want in the list.
5. Select "**Albums**".
   A list of all albums by the selected artist stored on the USB device is opened.
6. Select the album you want in the list.
   The number of tracks on this album is now shown in brackets on the "**Track**" button.
7. Select "**Start playback**".
   The tracks on the selected album are now played one after the other.

Searching for similar tracks by category

1. Press the **DISC** button repeatedly until the "**USB**" audio source is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Play more from**".
   You can now choose between the following categories:
   – "**Artist**",
   – "**Album**" and
   – "**Genre**".
4. Select the category you want.
   The corresponding tracks are played one after the other.

i In some cases, no further tracks may be found for the selected category.

Searching for tracks using a full text search

The full text search function gives you quick access to specific tracks. It is suitable for the following situations:

– there is no metadata (ID3 tags) on your USB device,
– there are a large number of tracks stored on your USB device and a search using filters would produce very long result lists or
– you do not know the exact name of the track/artist you want.

1. Press the **DISC** button repeatedly until the "**USB**" audio source is highlighted in the bottom line.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Full text search**".
   The input menu is opened.
4. Enter at least three letters of the search term.
5. Call up the search results by selecting "**List**".

In the result list, symbols are used to distinguish between an artist, track or album:

Artist

Album

Track

6. Select the artist/album/track you want in the result list.
   The selection is played.

Track list

The tracks and playlists stored on the USB device are displayed in alphabetical order in the track list. To find out more about using the track list, please refer to the section “Selecting a track (MP3 CD/ DVD)” on page 37.

1. Press the **DISC** button repeatedly until the “**USB**” audio source is highlighted in the bottom line.
2. Select “**Track list**”.
   The menu is opened.
3. Select the track you want.
   The track is played.
   - **or** -
   Select the playlist and then the track you want.
   The track is played.

If the directory structure of the folders is very deep or the number of files is very large, it may not be possible to display all of the folders or tracks.
File formats that cannot be played will not be displayed.

Skipping to the previous/next track

If the current track has been playing for longer than 10 seconds, pressing the ◁ button resumes playback from the start of the current track.
If the current track has not yet been playing for 10 seconds, playback is resumed from the start of the previous track.

- ▷ If you want to skip to the next track in USB mode, briefly press the ▷ button.
- ▷ If you want to skip back to the start of the track in USB mode, briefly press the ◁ button.

Fast forward/reverse

- ▷ Press the ▷ button or ◁ button in USB mode until the position you want is reached.

Repeating a track

Activating this function repeats the current track.

- ▷ Select “**Repeat**” in USB mode to activate (☑) or deactivate (☐) the function.

- **or** to switch it off -

- ▷ Press the ◁ or ▷ button.

Switching the shuffle function on/off

When you activate this function, the current track is played to the end. All tracks in the current music selection are then played in random order.

- ▷ Select “**Shuffle**” in USB mode to activate (☑) or deactivate (☐) the function.

The shuffle function is automatically deactivated as soon as a new music search is started.

Starting/stopping scanning

When this function is activated, each track from the USB device or the current music selection is played for approx. 10 seconds.

1. Press the **DISC** button repeatedly until the “**USB**” audio source is highlighted in the bottom line.
2. Select “**Start scan**” to activate the function.
3. Select “**Stop scan**” to deactivate the function.
   The track on the USB device that has started playing continues to be played.

The function is automatically stopped as soon as a track is selected directly in the track list or a music search is performed.

AUX jack

External audio source

You can use the AUX interface to connect an external audio source that is operated on the source itself rather than on the PCM. Please refer to the operating manual for the relevant device.

WARNING!

Accident hazard. Distraction could result in you losing control of the vehicle.

▷ Operate the external audio source only when you are safely in control of your vehicle and traffic conditions permit. If in doubt, stop the vehicle and operate the external audio source while the vehicle is parked.

Calling up an external audio source

▷ Press the **DISC** button repeatedly until the "**AUX**" audio source is highlighted in the bottom line.

Activating the interface

To be able to select a connected external audio source with the **DISC** button, the interface must be activated in the SET menu.

1. Press the **DISC** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET DISC / AUX**".
   You will only be able to access the "**SET DISC / AUX**" menu if there is at least one CD/DVD inserted or at least one audio source activated (☑) in the menu.
4. Select "**AUX**" to activate (☑) or deactivate (☐) the function.

Adapting the volume for an external audio source

Volume control should mainly be performed on the external audio source to avoid large differences in volume (particularly increases) when changing the audio source.

Recommendation:

▷ Set the maximum volume on the external audio source.

▷ Then set the volume you want on the PCM.

You can also adapt the volume of the external audio source to the volume of the PCM.

You will only be able to access the "**SET DISC / AUX**" menu if there is at least one audio source from the DISC area available.

1. Press the **DISC** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET DISC / AUX**"
   > "**Volume adaptation**"
   > "**Volume AUX**".
4. Make the setting you want by selecting the symbols ▲ and ▼ or by turning the right rotary knob.

External Bluetooth® audio source

You can also connect an external audio source that is partially operated on the source itself rather than on the PCM via a Bluetooth® connection.

For the connection and operation of the external Bluetooth® audio source, the PCM also supports the A2DP/AVRCP profile.
The extent to which the external Bluetooth® audio source can be operated on the PCM depends on the functions supported by the audio source. Operation of the external Bluetooth® audio source on the PCM is therefore restricted in some cases. In other cases, operation on the PCM is not possible. The audio source is then operated on the connected device itself. Please refer to the operating manual for the relevant device.

WARNING!

Accident hazard. Distraction could result in you losing control of the vehicle.

▷ Operate the external audio source only when you are safely in control of your vehicle and traffic conditions permit. If in doubt, stop the vehicle and operate the external audio source while the vehicle is parked.

Calling up an external Bluetooth® audio source/starting playback

▷ Press the **DISC** button repeatedly until the "**AUX BT**" audio source is highlighted in the bottom line.

Playback starts automatically if this is supported by the Bluetooth® device. It may be necessary to start playback manually on the Bluetooth® device.

The "**AUX BT**" mode is only displayed if a corresponding device is connected to the interface.

Activating the interface

To use an external Bluetooth® audio source, the AUX Bluetooth function must be activated in the "**SET DISC / AUX**" menu.

1. Press the **DISC** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET DISC / AUX**".
   You will only be able to access the "**SET DISC / AUX**" menu if there is at least one CD/DVD inserted or at least one audio source activated (☑) in the menu.
4. Select "**AUX Bluetooth**" to activate (☑) or deactivate (☐) the function.
   When you deactivate "**AUX Bluetooth**", the Bluetooth® devices are deleted from the list if necessary.

With some devices, it may be necessary to set the volume on the device.

Recommendation:

- ▷ Set the required volume on the external Bluetooth® audio source.
- ▷ Then set the volume you want on the PCM.

The functions and displays depend on the active Bluetooth® device.

Skipping a track

- ▷ If you want to skip to the next track, briefly press the ▷ button.
- ▷ If you want to skip back to the start of the track/to the previous track, briefly press the ◁ button.

Fast forward/reverse

- ▷ Press the ▷ button or ◁ button in AUX BT mode until the position you want is reached.

Repeating a track

Activating this function repeats the current track.

- ▷ Select "**Repeat**" in Bluetooth® AUX mode to activate (☑) or deactivate (☐) the function.

- **or** to switch it off -

- ▷ Press the ◁ or ▷ button.

Switching the shuffle function on/off

When you activate this function, the current track is played to the end. All tracks are then played in random order.

- ▷ Select "**Shuffle**" in Bluetooth® AUX mode to activate (☑) or deactivate (☐) the function.

Starting/stopping scanning

When this function is activated, each track from the external audio source is played for approx. 10 seconds.

1. Press the **DISC** button repeatedly until the "**AUX BT**" audio source is highlighted in the bottom line.
2. Select "**Start scan**" to activate the function.
3. Select "**Stop scan**" to deactivate the function. The track from the external audio source that has started playing will continue to play.

Bluetooth® settings

Calling up *Bluetooth*® settings

1. Press the **DISC** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET DISC / AUX**" > "**Bluetooth settings**".

You will only be able to access the "**SET DISC / AUX**" menu if there is at least one audio source from the DISC area available.

Switching *Bluetooth*® on/off

Switching *Bluetooth*® on

- ▷ Select "**Switch on Bluetooth**" in the *Bluetooth*® settings.

Switching *Bluetooth*® off

- ▷ Select "**Switch off Bluetooth**" in the *Bluetooth*® settings.

Adding a new *Bluetooth*® device

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible".

1. Select "**New MP3 player**" in the *Bluetooth*® settings.
   A search is started and a list of the devices found is displayed.
2. Choose the device you want by selecting it in the list.
   A *Bluetooth*® code is displayed that you must enter in the corresponding *Bluetooth*® device. Once you have entered the code, successful authorisation of the device is shown on the display.

Establishing a connection from an external *Bluetooth*® device

To find out more, please refer to the section "Establishing a connection from an external Bluetooth® device" on page 69.

Setting visibility

To find out more, please refer to the section "Setting visibility" on page 69.

Authorised *Bluetooth*® devices

This function allows you to display a list of the *Bluetooth*® devices currently authorised to connect with your PCM. The list contains all authorised MP3 players .

Displaying authorised *Bluetooth*® devices

▷ Select "**List of MP3 players**" in the *Bluetooth*® settings.

Connecting an authorised *Bluetooth*® device with the PCM

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Connect**".

Disconnecting an authorised and connected *Bluetooth*® device from the PCM

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Disconnect**".

Renaming an authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Rename**".
   The input menu is opened.
4. Enter the name you want and confirm by selecting "**OK**".
   The name of the device is now changed in the PCM.

Deleting an authorised *Bluetooth*® device from the list

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Delete**".
4. Confirm the prompt that appears by selecting "**Yes**".

Deleting the list of authorised *Bluetooth*® devices

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Delete**".
4. Select "**Delete list**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Displaying details for the authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Device details**".
   The following information is displayed:
   – the device name,
   – the *Bluetooth*® address as well as
   – the supported services.

PHONE

Bluetooth® 54
Prerequisites for the mobile phone 55
Hands-free quality 55
Interruptions to the connection while driving 55
Switching Bluetooth® on/off 56
Operating the Bluetooth® hands-free unit (Bluetooth® mobile phone preparation) 56
Authorising a mobile phone 56
Establishing a connection from an external Bluetooth® device 57
Conducting calls 58
Temporarily muting the hands-free microphone 58
Accepting a call 58
Ending a call 59
Rejecting a call 59
Dialling a number 60
Using the quick dial (redial) function 60
Using the direct dial function 60
Holding a call 60
Phonebook 60
List of previous calls 61
List of received calls 62
Touch tone dialling (DTMF tones) 63
Establishing an additional call 63
Call waiting 64
Call waiting (swapping) and conference 65
Speed dialling 65
Telephone settings (Bluetooth® mobile phone preparation) 66
Setting the ringtone type 66
Setting the ringtone volume 66
Setting the call volume 66
Setting the microphone volume 66
Switching 3-way calling on/off 66
Bluetooth® settings (Bluetooth® mobile phone preparation) 67
Authorised Bluetooth® devices 67
Adding a new Bluetooth® device 68
Establishing a connection from an external Bluetooth® device 69
Setting visibility 69
Phonebook settings (Bluetooth® mobile phone preparation) 70
Setting the memory for the phonebook 70
Setting sorting 70
Setting automatic transfer of the phonebook 70
Transferring the phonebook 71
Transferring the phonebook entries manually 71
Deleting the phonebook 71
Operating the PCM telephone 72
Inserting the SIM card in the PCM 72
Entering the PIN 73
Conducting calls 73
Temporarily muting the hands-free microphone 73
Accepting a call 74
Ending a call 74
Rejecting a call 75
Dialling a number 75
Using the quick dial (redial) function 75
Using the direct dial function 75
Holding a call 76
PCM phonebook 76
List of previous calls 78
List of received calls 79
Touch tone dialling (DTMF tones) 80
Establishing an additional call 81
Call waiting 81
Call waiting (swapping) and conference 82
Using supplementary services 83
Making an emergency call 83

Text messages (SMS)
(with PCM telephone only) 83
Reading a text message 84
Replying to a text message 84
Creating and sending a new text message ... 85
Forwarding a text message 87
Deleting a text message 87
Reading a vCard 87
Accepting vCards 88
Editing vCard details 88
Discarding (deleting) vCards 89
Numbers in text messages 89
Displaying the complete text 90
Creating a template 90
Telephone settings
(PCM telephone) 91
Switching the PCM telephone on/off 91
Setting ringtones 91
Selecting a network 91
Displaying the IMEI 92
Switching 3-way calling on/off 92
SIM settings 92
Call settings
(PCM telephone) 93
Activating call forwarding 93
Switching the “Call waiting” function on/off ... 94
Switching the “Redial” function on/off 95
Setting transfer of your own number 95
Setting automatic call answering 95
Bluetooth® settings
(PCM telephone) 95
Authorised Bluetooth® devices 95
Adding a new Bluetooth® device 97
Setting visibility 98
Finding the cordless handset 98
Phonebook settings 98
Setting the memory for the phonebook 98
Setting sorting 99
Setting automatic transfer of
the phonebook 99
Transferring the phonebook 100
Deleting the phonebook 100
Settings for messages and data
(PCM telephone) 100
Changing the number of the
SMS service centre 100
Switching the SMS signal tone on/off 100
Cordless handset 101
Switching the cordless handset on/off 101
Charging the cordless handset 101
General operation 101
Accepting a call 102
Ending a call 102
Rejecting a call 102
Dialling a number 102
Temporarily muting the
handset microphone 102
Establishing an additional call 102
Call waiting (swapping) and conference 103
Phonebook 104
Text messages (SMS) 105
Settings 107

The PCM can be equipped with an integrated car phone (PCM telephone) as an optional accessory.

This car phone (PCM telephone) is a quadband GSM radio telephone (GSM 850/900/1800/1900) with hands-free unit and a cordless handset. It conforms to the GSM standard (**G**lobal **S**ystem for **M**obile communication) currently implemented in more than 100 countries.
For information on the current GSM coverage and planned expansion of the coverage areas of GSM networks, contact your network provider.

Your PCM also offers a facility for the connection, operation and hands-free operation of an external telephone (mobile phone) via a *Bluetooth*® connection.

An alternative equipment version (*Bluetooth*® mobile phone preparation) does not include a PCM telephone, but does still allow you to use the PCM as a hands-free unit for *Bluetooth*® mobile phones.

A list of selected compatible mobile telephones is available on the Internet at http://www.porsche.com.

WARNING!

Injury hazard. The telephone must not be used near explosives or flammable materials (e.g. at a petrol station) or near operations involving explosives.
Mobile phones must be switched off in certain hazardous areas such as near petrol stations, fuel depots, chemical plants and demolition work in progress using explosives, for example. They can interfere with technical equipment.

- ▷ Please heed appropriate warnings.
- ▷ Observe statutory regulations and local restrictions when using the telephone.

Bluetooth®

Bluetooth® is a system for establishing radio connections between electronic devices within a maximum range of 10 metres (approx. 33 feet). *Bluetooth*® allows you to use your mobile phone via the PCM. You can accept, make and end calls. You use your vehicle's audio system for hands-free operation and have access to the contents of your phonebook.

Access to the phonebook depends on the range of functions supported by the mobile phone used.

The connection is established in different ways depending on the telephone version in your PCM:

– In the case of a PCM **with *Bluetooth***® mobile phone preparation, connection takes place using the **Hands-Free Profile**.
When connecting using the Hands-Free Profile, the PCM simply serves as a ***Bluetooth***® **hands-free unit** for the external telephone.
The SIM card of the external telephone cannot be accessed (e.g. to write a text message) and the range of functions is restricted accordingly (depending on the mobile phone used).

– In the case of a PCM **with PCM telephone**, connection takes place using the **SIM Access Profile** if this profile is supported by the mobile phone used. When connecting using the SIM Access Profile, the SIM card of the mobile phone is used for operation of the PCM telephone. The data on the SIM card (phonebook entries and text messages) is read out by the PCM and is available for use on the PCM.
The range of functions for a connection using the SIM Access Profile is largely the same as the function of the PCM telephone with SIM card inserted.

  If the mobile phone does not support the SIM Access Profile, connection takes place using the Hands-Free Profile.

  With mobile phones that support both profiles, it is possible to switch between the connection types.

The option of connection using the SIM Access Profile is not available on all mobile phones and must also be activated on the device for some mobile phones.
In some countries there may be limitations on the use of devices with *Bluetooth*®. Please contact the local authorities for further information.

Prerequisites for the mobile phone

Not all mobile phones are equally suitable for making and receiving calls via the *Bluetooth*® interface of the PCM.

– You need a mobile phone that supports *Bluetooth*®.
– The mobile phone must support the Hands-Free Profile 1.0 or higher.
– The mobile phone must be switched on and *Bluetooth*® must be activated.
– On some mobile phones, the device must also be rendered “visible” to other devices with *Bluetooth*®.

Further information on the settings on your mobile phone can be found in the manufacturer’s operating instructions.

Some mobile phones have special characteristics when it comes to *Bluetooth*® or do not fully support *Bluetooth*®. Contact your mobile phone retailer and, if applicable, download the latest software onto your mobile phone.

Hands-free quality

The hands-free quality can be impaired by

– having the fan on, windows open or the top down,
– wind and rolling noise,
– mobile phone having a poor network connection,
– vehicle travelling at high speed.

Interruptions to the connection while driving

Interruptions to the connection may occur if:

– there is inadequate GSM coverage in certain regions,
– you are switching from one GSM transmitting/receiving station (GSM cell) to another and there is no voice channel available in this cell,
– you are using a SIM card that is not compatible with the available network,
– you are using two SIM cards and the mobile phone is simultaneously logged into the network with the second SIM card.

Switching *Bluetooth*® on/off

Switching *Bluetooth*® on

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**" > "**Bluetooth settings**".
4. Select "**Switch on Bluetooth**".

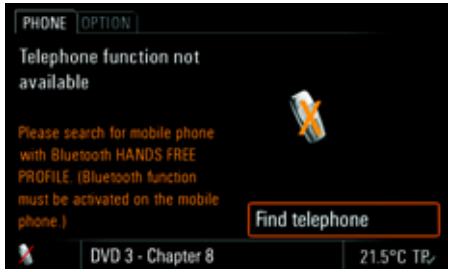
Switching *Bluetooth*® off

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**". > "**Bluetooth settings**".
4. Select "**Switch off Bluetooth**".

Operating the *Bluetooth*® hands-free unit (*Bluetooth*® mobile phone preparation)

The *Bluetooth*® hands-free unit allows you to use the PCM as a hands-free unit for *Bluetooth*® mobile phones.

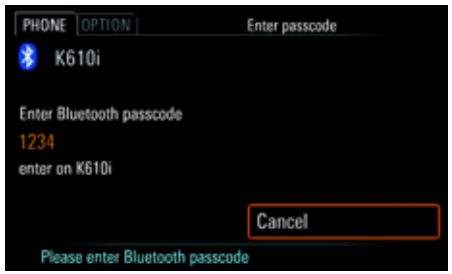
Please note that your mobile phone must support the *Bluetooth*® Hands-Free Profile for use with the *Bluetooth*® hands-free unit.



Authorising a mobile phone

Using the "**Find telephone**" function you can have the PCM search for and authorise your mobile phone. Follow the instructions on the PCM display for this.

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible". Further details can be found in the operating manual for your mobile phone.



1. Press the **PHONE** button.
2. Select "**Find telephone**".
   A search is started and a list of the devices found is displayed.
3. Select the device you want in the list.
   A *Bluetooth*® code is displayed, which you must enter on your mobile phone.
4. Enter the displayed *Bluetooth*® code on the mobile phone.
   Successful authorisation of the device is shown on the display and the connection is established.

With some mobile phones, the connection request by the PCM must be explicitly confirmed on the mobile phone. This may even have to be done a number of times in some cases, for example before transferring the phonebook. To avoid this request, you can authorise the PCM in your mobile phone's list of devices. The connection will then be established automatically in the future, without the need for further checks.
Further details can be found in the operating manual for your mobile phone.

To find out more, please refer also to the sections "Authorised Bluetooth® devices" on page 95 and "Adding a new Bluetooth® device" on page 97.

Establishing a connection from an external *Bluetooth*® device

If the PCM does not find your mobile phone or a connection attempt by the PCM fails, you can also start the authorisation from the mobile phone.

1. If another mobile phone is connected with the PCM, switch off *Bluetooth*® on the connected mobile phone to disconnect the connection with the PCM.
2. Press the **PHONE** button.
3. Press the **OPTION** button or touch the tab of the same name in the header.
   The PCM is now visible for external devices.

Please ensure that the *Bluetooth*® visibility of the PCM is activated. To find out more, please refer to the section "Setting visibility" on page 69.

4. Using the mobile phone, search for audio accessories or devices that support *Bluetooth*®.
   Refer to the manufacturer's operating instructions to find out how to do this.
5. Select the device "PCM" from the mobile phone's search results and establish a connection.
   Refer to the manufacturer's operating instructions to find out how to do this.
6. A request appears on the PCM display.
   Select "**Accept**".
7. A keypad appears where you enter a four-digit *Bluetooth*® code of your choice and confirm with "**OK**".

8. Enter the same *Bluetooth*® code on your mobile phone.
   Once you have entered the code, successful authorisation of the device is shown on the display.
9. With many mobile phones, the connection with the PCM must be explicitly established from the mobile phone following authorisation. Further details can be found in the operating manual for your mobile phone.

i With some mobile phones, the *Bluetooth*® code must be directly provided by the mobile phone during the connection request. If this is the case, enter a 4-digit code of your choice on your mobile phone and confirm it with OK. You will then be shown a keypad on the PCM display where you must enter the same code and confirm it.

Conducting calls

There is a hands-free microphone in the roof control console of the vehicle. This means that you can conduct all telephone calls without using a handset.
You control the volume using the left rotary knob ❨◉❩.

If there is a mobile phone connected to the PCM using the Hands-Free Profile, the call is normally conducted using the hands-free unit. It can, however, be transferred to the mobile phone by selecting the "**Private**" function.

▷ Select "**Private**" during the call to activate (☑) or deactivate (☐) the "**Private**" function.

Temporarily muting the hands-free microphone

▷ Select "**Mute microphone**" during a call to activate (☑) or deactivate (☐) the function.

i The microphone can also be muted by:

– briefly pressing ➔◉ the left rotary knob
- or - (with multi-function steering wheel with telephone function)

– pressing the left roller on the multi-function steering wheel.

Accepting a call

As soon as a call comes in, the current audio source is muted and the selected ringtone is played. In addition, an appropriate menu is temporarily displayed or an appropriate message is shown in the bottom line.

If available, the telephone number and name of the caller are displayed.

You can accept the incoming call in a number of ways:

▷ Pressing the Lift handset button on the PCM.

- or -

▷ Selecting "**Answer**" on the display.

- or -

▷ Pressing the Lift handset button on the external mobile phone.

- or -

▷ Selecting the menu item in the instrument cluster using the lower right stalk on the steering wheel.

- or - (with multi-function steering wheel with telephone function)

▷ Pressing the Lift handset button on the multi-function steering wheel.

Ending a call

You can end an active call by:

▷ Pressing the End call button on the PCM.

- or -

▷ Selecting "**End call**" in the call menu.

- or -

▷ Pressing the End call button on the external mobile phone.

- or -

▷ Selecting the menu item in the instrument cluster using the lower right stalk on the steering wheel.

- or - (with multi-function steering wheel with telephone function)

▷ Pressing the End call button on the multi-function steering wheel.

Rejecting a call

You can reject an incoming call by:

▷ Pressing the End call button on the PCM.

- or -

▷ Selecting "**Reject**" in the call menu.

- or -

▷ Briefly pressing the left rotary knob .

- or -

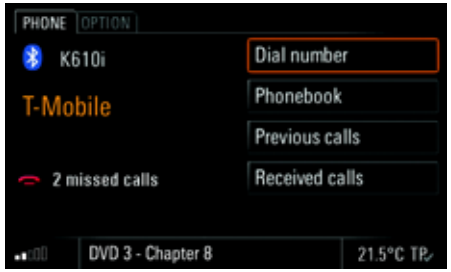
▷ Pressing the End call button on the external mobile phone.

- or -

▷ Selecting the menu item in the instrument cluster using the lower right stalk on the steering wheel.

- or - (with multi-function steering wheel with telephone function)

▷ Pressing the End call button on the multi-function steering wheel.



Dialling a number

1. Press the **PHONE** button.
   The PHONE main menu appears.
2. Select "**Dial number**".
   The input menu for telephone numbers is opened. The input field for the telephone number is blank.
3. Select the individual digits in the telephone number one after the other.
4. Select "**Call number**".
   The telephone call is established and the call menu is displayed.

Always enter the telephone number with the dialling code.

Using the quick dial (redial) function

Pressing the Lift handset button on the PCM opens the quick dial menu. This menu contains a list of previous calls.

1. Press the Lift handset button on the PCM.
2. Select the person you want to talk to.
3. Select "**Call number**" or press the Lift handset button on the PCM again.
   - **or** -
   Select the first list entry, "**Dial number**".
   The input menu for telephone numbers opens.
4. Enter the telephone number you want.
5. Select "**Call number**".

Using the direct dial function

If a telephone number is displayed in a menu and is highlighted, the number is dialled directly if you

▷ press the Lift handset button on the PCM

- **or** -

▷ touch the displayed number for at least one second.

Holding a call

▷ You can hold an active call by pressing the Lift handset button on the PCM.

The menu items "**New call**", "**Take call**" and "**End call**" are then available for you to select.

▷ To continue the call, press the Lift handset button on the PCM again.

Phonebook

After a *Bluetooth*® connection has been established between the PCM and the mobile phone, the PCM attempts to transfer the phonebook data from the mobile phone. You can prevent this automatic phonebook transfer by deactivating the "**Auto update**" function. To find out more, please refer to the section "Setting automatic transfer of the phonebook" on page 70.

Displaying the phonebook

1. Press the **PHONE** button.
   The PHONE main menu appears.
2. Select "**Phonebook**".
   The phonebook is opened.

Calling a phonebook entry

1. Press the **PHONE** button.
2. Select "**Phonebook**".
3. Select the phonebook entry you want.
4. If there is more than one number stored for this entry, select the number you want.
5. Select "**Call number**".
   The number you want is dialled.

Sending a vCard

You can send phonebook entries directly as vCards. A vCard is an "electronic visiting card" that a recipient can accept directly into his or her phonebook.

1. Press the **PHONE** button.
2. Select "**Phonebook**".
3. Select the phonebook entry you want.
4. Select "**Send vCard**".
   The list of known devices that are suitable for a transfer is displayed. If the device you want is not there, you can search for further devices. To do this, press "**New data device**" (see also the section "Adding a new Bluetooth® device" on page 97).
   As soon as the search is complete, a list containing the devices found is displayed. Once you have selected a device in this list, a connection is established and the vCard is sent.

List of previous calls

When a mobile phone is connected to the PCM via a *Bluetooth*® connection, the mobile phone's call lists are transferred and displayed after the connection has been established. The last number dialled appears at the top of the list.

i The transfer of the phonebook and call lists is not supported by all mobile phones.

If one of the telephone numbers matches an entry from your phonebook, the name of the person called is displayed instead of the telephone number.

Displaying the list

1. Press the **PHONE** button.
2. Select "**Previous calls**".
   The list of previous calls is displayed with the time and date of the calls, if this information is available in the PCM.

Calling a number from the list of previous calls

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Call number**".

Deleting a number from the list of previous calls

i Entries transferred from the mobile phone cannot be deleted in the PCM.
Please delete the entries on your mobile phone.

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Delete**".
5. Confirm the prompt that appears by selecting "**Yes**".
   The number is deleted from the list.

Adding to a number from the list of previous calls

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Add to number**".
   The input menu is opened and the number is shown in the input field ready for editing.
5. Make the change you want.
6. Select "**Call number**".

The telephone number stored in the list is not changed.

List of received calls

When a mobile phone is connected to the PCM via a *Bluetooth*® connection, the mobile phone's call lists are transferred and displayed after the connection has been established. The last call received appears at the top of the list.

The transfer of the phonebook and call lists is not supported by all mobile phones.

If the date and time information for the individual calls is not transferred from the mobile phone, the list begins with the unanswered calls. These are then followed by the accepted calls.

If one of the telephone numbers matches an entry from your phonebook, the name of the caller is displayed instead of the telephone number.

Displaying the list

1. Press the **PHONE** button.
2. Select "**Received calls**".
   The list of received calls is displayed with the time and date of the calls, if this information is available in the PCM. It contains both accepted and missed calls.

Calling a number from the list of received calls

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number or name you want.
4. If there is more than one telephone number stored for a name, select the number you want.
5. Select "**Call number**".

Deleting a number from the list of received calls

Entries transferred from the mobile phone cannot be deleted in the PCM. Please delete these entries on your mobile phone.

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number you want.
4. Select "**Delete**".
5. Confirm the prompt that appears by selecting "**Yes**".
6. The number is deleted from the list.

Adding to a number from the list of received calls

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number you want.
4. Select "**Add to number**".
   The input menu is opened and the number is shown in the input field ready for editing.
5. Make the change you want.
6. Select "**Call number**".

The telephone number stored in the list is not changed.

Touch tone dialling (DTMF tones)

DTMF (**D**ual **T**one **M**ulti **F**requency) tones can be sent once a telephone connection has been established. You need this function to communicate with touch tone-activated telephone systems (e.g. for controlling your voice mailbox or when dialling in remotely to your answering machine).

Touch tone dialling

1. Select "**Dial number**" in the call menu.
   The numerical input menu is opened.
2. Enter the digits you want.
   Each digit is **immediately** transmitted as a DTMF tone.

Combining DTMF tones with a telephone number

You can use the + and w characters in the numerical input menu to combine DTMF tone dialling with the entry of a telephone number.

+	The DTMF dialling digits are appended to the digits of the telephone number without any breaks. ▷ To enter the + character, touch and hold the **0+** symbol in the telephone input menu.
w	The digits of the telephone number are dialled first. As soon as the connection to the telephone number dialled has been established, the DTMF dialling digits must be confirmed again. ▷ To enter the w character, touch and hold the ***** symbol in the telephone input menu.
p	The digits of the telephone number are dialled first. The PCM then waits until the connection has been established before dialling the DTMF dialling digits. ▷▷▷

The p character cannot be entered in the telephone input menu. It is, however, recognised by the PCM if it is stored in a telephone number on the SIM card, for example. In this case, the behaviour of the PCM is the same as the behaviour for "+" described above.

Establishing an additional call

You can establish an additional call while there is another call active.

Some mobile phones do not support making or accepting a second call. In this case, the "**New call**" menu item is greyed out during an active call.

1. Select “**New call**” in the call menu.
2. You then have the following options for entering the telephone number:
   – “**Dial number**”:
     The input menu for telephone numbers is opened. Please refer to the section “Dialling a number” on page 60.
   – “**Phonebook**”:
     You can insert a number stored in the phonebook. To find out more, please refer to the section “Calling a phonebook entry” on page 61.
   – “**Previous calls**”:
     You can insert a telephone number from the list of previous calls. To find out more, please refer to the section “Calling a number from the list of previous calls” on page 61.
   – “**Received calls**”:
     You can insert a telephone number from the list of received calls. To find out more, please refer to the section “Calling a number from the list of received calls” on page 62.

The original call is held while the new connection is established.
You can switch between the two calls or establish a conference call. To find out more, please refer to the section “Call waiting (swapping) and conference” on page 65.

Call waiting

The “**Call waiting**” function is only available if supported by the network provider and by the mobile phone.
The “**Call waiting**” function must also be activated in the call settings of the mobile phone. To find out more, please refer also to the section “Call waiting (swapping) and conference” on page 65.

Rejecting a waiting call

If you receive another call while there is already one active, you will hear a call waiting tone.
The menu for the incoming call is displayed and a message appears in the bottom line.

▷ Select “**Reject**”.
The waiting call is rejected. The caller hears a busy signal.
If the caller’s telephone number is transmitted, the number or name appears in the “**Received calls**” list.

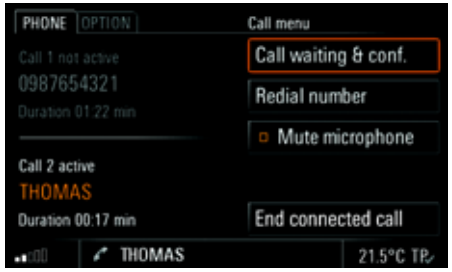
Accepting a waiting call

▷ Select “**Answer**”.
The waiting call is accepted and activated. The previously active call is put on hold.
You then have the option to switch between the two calls or to establish a conference with both callers. To find out more, please refer to the section “Call waiting (swapping) and conference”.

The PCM will not accept a third incoming call. The caller hears a busy signal or is redirected to the mailbox.

Ending a connected call

▷ Select “**End connected call**”.
The currently active call is ended and the first call that is on hold is activated again.



Call waiting (swapping) and conference

The "**Call waiting & conf.**" function is only available if supported by the network provider and by the mobile phone.
When using the *Bluetooth*® hands-free unit, this function is only available for a limited selection of devices.
A prerequisite for this function is that there are two calls, one of which is active and one of which is on hold (inactive). To find out more, please refer to the sections "Establishing an additional call" on page 63 and "Accepting a waiting call".

▷ Select "**Call waiting & conf.**".

You now have a number of options:

Swapping between the calls (call waiting)

1. Select "**Swap**".
   The system swaps to the other call. The previously active call is put on hold.
2. Select "**Swap**" again to return to the call on hold.
3. To end one of the two calls, select "**End call 1**" or "**End call 2**".
   - **or** -
   Select "**End all**" to end both calls.

Conferencing the two calls

1. Select "**Conference**".
   Both calls are activated and connected so that all parties can speak to each other.
2. To end one of the two calls, select "**End call 1**" or "**End call 2**".
   - **or** -
   Select "**End all**" to end the conference.

Speed dialling

Speed dialling is a frequently used function in the US market, which allows dialling without having to enter the complete telephone number.
Instead, you can enter the number of a memory location on the SIM card followed by the "#" character to dial the corresponding telephone number.

The speed dialling function is only available if supported by your mobile phone.

1. Press the **PHONE** button.
   The PHONE main menu appears.
2. Select "**Dial number**".
   The input menu for telephone numbers is opened.
3. Select the individual digits of the memory location on the SIM card one after the other.
4. Select the "#" character.
5. Select "**Call number**".
   The corresponding telephone number is inserted and dialled. The call menu is displayed.

Telephone settings (*Bluetooth*® mobile phone preparation)

Setting the ringtone type

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Telephone settings**" > "**Ringtone type**".
   A list of the available ringtones is displayed.
4. Set the ringtone you want by selecting it.
   After a ringtone is selected, it is played back again.
5. Change the volume of the ringtone type if necessary by turning the left rotary knob. The volume level set in this way is saved when you exit the menu.

If the connected mobile phone supports the transfer of the ringtone via *Bluetooth*® (inband ringing), the Ringtone settings item is greyed out and the ringtone must be set on the mobile phone.

Setting the ringtone volume

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Telephone settings**" > "**Ringtone volume**".
4. Make the setting you want by turning the right rotary knob or by selecting the two symbols and .

The implementation of audio transmission via *Bluetooth*® often depends on the specific mobile phone implementation. If the volume in the vehicle or for the called party is insufficient, it can be readjusted in the PCM.

Setting the call volume

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Telephone settings**" > "**Call volume**".
4. Make the setting you want by turning the right rotary knob or by selecting the two symbols and .

Setting the microphone volume

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Telephone settings**" > "**Mic volume**".
4. Make the setting you want by turning the right rotary knob or by selecting the two symbols and .

Switching 3-way calling on/off

Problems may occur with 3-way calling on the PCM as these functions are not correctly supported by all mobile phones and telephone networks (in particular CDMA networks).
It is recommended that 3-way calling be switched off in such cases in order to ensure reliable telephone operation.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Telephone settings**".
4. Select "**3-way calling**" to activate ( ) or deactivate ( ) the function.

Bluetooth® settings (*Bluetooth*® mobile phone preparation)

Authorised *Bluetooth*® devices

This function allows you to display a list of the *Bluetooth*® devices currently authorised to connect with your PCM. The list contains:

– mobile phones ,

– MP3 players as well as

– data devices .

Displaying authorised *Bluetooth*® devices

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Bluetooth settings**"
   > "**Device list**".
   The list is opened.
   Devices that can be connected with the PCM using different profiles appear only once in the list. The symbol used always corresponds to the main application. Mobile phones that can also be used as MP3 players or data devices appear in this list with the telephone symbol.

Connecting an authorised *Bluetooth*® device with the PCM

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Connect**".

i Data devices cannot be connected from the list of devices; they can only be connected by calling the appropriate application, for example when transferring a vCard.

Disconnecting an authorised and connected *Bluetooth*® device from the PCM

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Disconnect**".

Renaming an authorised *Bluetooth*® device

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Rename**".
   The input menu is opened.
4. Enter the name you want and confirm by selecting "**OK**".
   The name of the device is now changed in the PCM.

Deleting an authorised *Bluetooth*® device from the list

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Delete**".
4. Confirm the prompt that appears by selecting "**Yes**".

Deleting the list of authorised *Bluetooth*® devices

1. Open the list of authorised *Bluetooth*® devices.
2. Select any device in the list.
3. Select "**Delete**".
4. Select "**Delete list**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Displaying details for the authorised *Bluetooth*® device

1. Open the list of authorised *Bluetooth*® devices.
2. Select any device in the list.
3. Select "**Device details**".
   The following information is displayed:
   – the device name,
   – the *Bluetooth*® address,
   – the connection quality as well as
   – the supported services.

Adding a new *Bluetooth*® device

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible".

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
   > Select "**Bluetooth settings**".
   > "**New device**".
   A search is started and a list of the devices found is displayed.
3. Choose the device you want by selecting it in the list.
   A *Bluetooth*® code is displayed that you must enter in the corresponding *Bluetooth*® device. Once you have entered the code, successful authorisation of the device is shown on the display.
4. The connection is automatically established by the PCM.

With some mobile phones, the connection request by the PCM must be explicitly confirmed on the mobile phone. This may even have to be done a number of times in some cases, for example before transferring the phonebook. To avoid this request, you can authorise the PCM in your mobile phone's list of devices. The connection will then be established automatically in the future, without the need for further checks.
It can take a few seconds for the *Bluetooth*® device to be authorised.
If the list of authorised *Bluetooth*® devices is full (max. 5 mobile phones), you must first delete a device from the list. An appropriate message will be displayed. To find out more, please refer to the section "Deleting an authorised Bluetooth® device from the list" on page 67.

Establishing a connection from an external *Bluetooth*® device

If the PCM does not find your mobile phone or a connection attempt by the PCM fails, you can also start the authorisation from the mobile phone.

1. If another mobile phone is connected with the PCM, switch off *Bluetooth*® on the connected mobile phone to disconnect the connection with the PCM.
2. Press the **PHONE** button.
3. Press the **OPTION** button or touch the tab of the same name in the header.
   The PCM is now visible for external devices.

i Please ensure that the *Bluetooth*® visibility of the PCM is activated. To find out more, please see the following section.

4. Using the mobile phone, search for audio accessories or devices that support *Bluetooth*®. Refer to the manufacturer's operating instructions to find out how to do this.
5. Select the device "PCM" from the mobile phone's search results and establish a connection.
   Refer to the manufacturer's operating instructions to find out how to do this.
6. A request appears on the PCM display. Select "**Accept**".
7. A keypad appears where you enter a four-digit *Bluetooth*® code of your choice and confirm with "**OK**".
8. Enter the same *Bluetooth*® code on your mobile phone.
   Once you have entered the code, successful authorisation of the device is shown on the display.
9. With many mobile phones, the connection with the PCM must be explicitly established from the mobile phone following authorisation. Further details can be found in the operating manual for your mobile phone.

i With some mobile phones, the *Bluetooth*® code must be directly provided by the mobile phone during the connection request. If this is the case, enter a 4-digit code of your choice on your mobile phone and confirm it with OK. You will then be shown a keypad on the PCM display where you must enter the same code and confirm it.

Setting visibility

To ensure that your PCM can be found by other devices via the *Bluetooth*® interface, it must be "visible" (=recognisable) for other devices during the search.
To prevent further unwanted connection requests, you can deactivate visibility of the PCM after the connection operation.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Bluetooth settings**".
4. Select "**PCM visible**" to activate () or deactivate () visibility of the PCM.

Phonebook settings (*Bluetooth*® mobile phone preparation)

Setting the memory for the phonebook

You can set which phonebook entries should be shown in the PCM phonebook display:

– phonebook entries on the SIM card

and/or

– phonebook entries in the telephone's memory.

This allows you to adapt the phonebook list of the PCM to your list in the mobile phone.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Phonebook settings**" > "**Phonebook memory**".
4. Make the setting you want by selecting it.

Setting sorting

You can adapt the sorting of the phonebook and call lists to the display on your mobile phone.

You have the following options for **sorting the phonebook**:

– "**Standard**"
The phonebook is sorted by surname.
– "**Alternative**"
The phonebook is sorted by first name.

You have the following options for **sorting the call lists**:

– "**Standard**"
The call lists are sorted in the same order in which the entries were transferred from the mobile phone.
– "**Alternative**"
The order of the entries transferred from the mobile phone is reversed. This option supports some mobile phones that transfer the oldest entries first.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Phonebook settings**" > "**Sorting**".

Setting sorting of the phonebook

4. Select "**Phonebook**".
5. Select the sorting you want.

Setting sorting of the call lists

4 Select "**Call lists**".
5. Select the sorting you want.

Setting automatic transfer of the phonebook

If the "**Auto update**" function is activated, the phonebook of a mobile phone is transferred as soon as the PCM is connected to this mobile phone.
As soon as the transfer is complete, the phonebook stored in the PCM is replaced by the current phonebook from the mobile phone.
If the "**Auto update**" function is deactivated, the data will no longer be updated.

6. Press the **PHONE** button.
7. Press the **OPTION** button or touch the tab of the same name in the header.
8. Select "**Phonebook settings**".
9. Select "**Auto update**" to activate (☑) or deactivate (☐) the function.

Your phonebook data can then only be accessed when the corresponding mobile phone is connected to the PCM.

Transferring the phonebook

This function transfers the phonebook of the connected mobile phone into the PCM again. The phonebook stored in the PCM is replaced by the current phonebook from the mobile phone once transfer is complete.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Transfer phonebook**".

Transferring the phonebook entries manually

Some mobile phones do not support automatic phonebook transfer. In these cases, you can load entries from your mobile phone's phonebook into the PCM phonebook manually.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Transfer phonebook**".
4. You can now choose whether to add to the phonebook or completely replace it.
   Select the function you want.
5. Select the entries you want from your mobile phone and transfer them to the PCM via Bluetooth.
   The PCM counts the entries already transferred.
6. When transfer is complete, select "**Ready**".
   The transferred entries are now available to you in the PCM phonebook.

Deleting the phonebook

The copy of the phonebook transferred to the PCM can be deleted again.
Your mobile phone's phonebook remains unchanged.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Delete phonebook**".

Operating the PCM telephone

A SIM card is required if you want to use the internal PCM telephone in telephone mode. You can

– insert the SIM card in the slot provided under the display or
– connect a suitable mobile phone to the PCM via *Bluetooth*®.

To find out more, please refer to the sections “Connecting an authorised Bluetooth® device with the PCM” on page 96 and “Adding a new Bluetooth® device” on page 97.

Please note that your mobile phone must support the *Bluetooth*® Hands-Free Profile or the *Bluetooth*® SIM Access Profile for use with the PCM telephone.

Inserting the SIM card in the PCM

▷ Push the SIM card (SIM = **S**ubscriber **I**dentification **M**odule) into the slot provided until it engages.
To remove the SIM card, press the card into the slot again until it stops.

Insert the SIM card so that the metal contacts are on the underside. The slanted corner of the SIM card must be on the **rear left**.

The use of twin SIM cards, for example in the mobile phone and the internal PCM telephone (both cards active at the same time), may impair the telephone functions.
For more information on this, contact your network provider.

If there is no SIM card inserted in the slot, the PCM automatically attempts to establish a *Bluetooth*® connection with a mobile phone. However, this is only possible if you have

– activated *Bluetooth*® on the PCM and on the mobile phone and
– authorised at least one mobile phone on the PCM.

If you have not yet authorised a mobile phone on the PCM, you can select “**Find telephone**” to have the PCM search for and authorise your mobile phone. Follow the instructions on the display.

You can find more information in the sections “Authorised Bluetooth® devices” on page 95 and “Adding a new Bluetooth® device” on page 97.

Entering the PIN

As soon as you have switched on the telephone and inserted the SIM card, you are prompted to enter the PIN (PIN = **P**ersonal **I**dentification **N**umber).
You will find the PIN in the documentation you received from your network provider.

1. Enter the PIN by selecting the keys on the keypad shown.
   The numbers entered will be shown as asterisks in the input field.
2. Confirm your entry by selecting "**OK**".

The SIM card will be blocked if you enter the wrong PIN three times in a row. To unblock the card, you must enter the PUK (**P**in **U**nblocking **K**ey). Follow the instructions on the PCM display to do this.
The SIM card will be blocked if you enter the wrong PUK ten times in a row. This block can only be removed by the network provider.

You can deactivate the PIN prompt after the device is switched on. To find out more, please refer to the sections "Switching the PIN prompt on or off" on page 93 and "Using a stored PIN" on page 93.

Conducting calls

There is a hands-free microphone in the roof control console of the vehicle. This means that you can conduct all telephone calls without using a handset.
You control the volume using the left rotary knob.

Conducting a call using a headset

1. Select "**Hands-free**" in the call menu to switch to hands-free mode.
2. Select "**Headset**" in the call menu to terminate hands-free mode. The call is transferred back to the headset.

The call can only be conducted using a headset if it has previously been connected with the PCM via *Bluetooth*®.
To find out more, please refer to the sections "Authorised Bluetooth® devices" on page 95 and "Adding a new Bluetooth® device" on page 97.

Conducting a call using the cordless handset

1. Select "**Hands-free**" in the call menu to switch to hands-free mode.
2. Press the Lift handset button on the handset to terminate hands-free mode. The call is transferred back to the handset. To find out more, please refer to the section "Cordless handset" on page 101.

Temporarily muting the hands-free microphone

▷ Select "**Mute microphone**" during the call to activate ( ) or deactivate ( ) the function.

The microphone can also be muted by:

– briefly pressing the left rotary knob
- or - (with multi-function steering wheel with telephone function)

– pressing the left roller on the multi-function steering wheel.

Accepting a call

As soon as a call comes in, an appropriate menu is temporarily displayed or an appropriate message shown in the bottom line.

If available, the telephone number and name of the caller are displayed.

You can accept the incoming call in a number of ways:

▷ Pressing the Lift handset button on the PCM.

- or -

▷ Selecting "**Answer**" on the display.

- or -

▷ Selecting the menu item in the instrument cluster using the lower right stalk on the steering wheel.

- or - (with multi-function steering wheel with telephone function)

▷ Pressing the Lift handset button on the multi-function steering wheel.

- or - (with handset if available)

▷ Pressing the Lift handset button on the handset.

- or -

▷ Removing the handset from the charging cradle.

Ending a call

You can end an active call by:

▷ Pressing the End call button on the PCM.

- or -

▷ Selecting "**End call**" in the call menu.

- or -

▷ Selecting the menu item in the instrument cluster using the lower right stalk on the steering wheel.

- or - (with multi-function steering wheel with telephone function)

▷ Pressing the End call button on the multi-function steering wheel.

- or - (with handset if available)

▷ Pressing the End call button on the handset.

- or -

▷ Placing the handset in the charging cradle (if the call is on the handset).

Rejecting a call

You can reject an incoming call by:

▷ Pressing the End call button on the PCM.

- or -

▷ Selecting "**Reject**" in the call menu.

- or -

▷ Briefly pressing the left rotary knob.

- or -

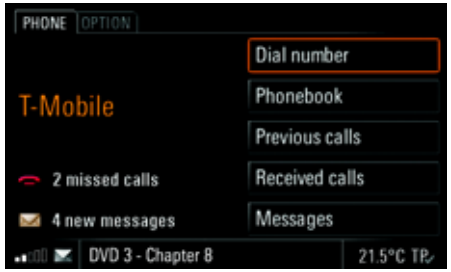
▷ Selecting the menu item in the instrument cluster using the lower right stalk on the steering wheel.

- or - (with multi-function steering wheel with telephone function)

▷ Pressing the End call button on the multi-function steering wheel.

- or - (with handset if available)

▷ Pressing the End call button on the handset.



Dialling a number

1. Press the **PHONE** button.
   The PHONE main menu appears.
2. Select "**Dial number**".
   The input menu for telephone numbers is opened. The input field for the telephone number is blank.
3. Select the individual digits in the telephone number one after the other.
4. Select "**Call number**".
   The telephone call is established and the call menu is displayed.

Always enter the telephone number with the dialling code.

Using the quick dial (redial) function

Pressing the Lift handset button on the PCM opens the quick dial menu. This menu contains a list of previous calls.

1. Press the Lift handset button on the PCM.
2. Select the person you want to talk to.
3. Select "**Call number**" or press the Lift handset button on the PCM again.
   - or -
   Select the first list entry, "**Dial number**".
   The input menu for telephone numbers opens.
4. Enter the telephone number you want.
5. Select "**Call number**".

Using the direct dial function

If a telephone number is displayed in a menu and is highlighted, the number is dialled directly if you

▷ press the Lift handset button on the PCM

- or -

▷ touch the displayed number for at least one second.

Holding a call

▷ You can hold an active call by pressing the Lift handset button on the PCM.

The menu items “**New call**”, “**Take call**” and “**End call**” are then available for you to select.

▷ To continue the call, press the Lift handset button on the PCM again.

PCM phonebook

After you insert a SIM card, the phonebook entries are transferred from the SIM card to the PCM.

After a *Bluetooth*® connection has been established between the PCM and the mobile phone, the PCM also attempts to transfer the phonebook data from the mobile phone. You can prevent this automatic phonebook transfer by deactivating the “**Auto update**” function. To find out more, please refer to the section “Setting automatic transfer of the phonebook” on page 70.

Displaying the phonebook

1. Press the **PHONE** button.
   The PHONE main menu appears.
2. Select “**Phonebook**”.
   The phonebook is opened.
   If no entries have been stored in it yet, “**List empty**” is displayed.
   If entries have already been stored, these are shown in a list.

Calling a phonebook entry

1. Press the **PHONE** button.
2. Select “**Phonebook**”.
3. Select the phonebook entry you want.
4. If there is more than one number stored for this entry, select the number you want.
5. Select “**Call number**”.
   The number you want is dialled.

Creating and storing a phonebook entry (only with the SIM card inserted)

1. Press the **PHONE** button.
2. Select “**Phonebook**”.
3. Select “**New entry**” at the end of the list.
4. Select “**Name**”.
   The input menu is opened.
5. Enter the name you want by selecting the individual letters in the input menu and confirm your entry by pressing “**OK**”.
6. Select “**Number**”.
7. Enter the number you want by selecting the individual digits in the input menu and confirm your entry by pressing “**OK**”.
8. Select “**Store entry**”.
   The entry is stored on the SIM card.

i The telephone number must be entered with a dialling code (there are a few exceptions to this). For overseas telephone calls you must also specify the international dialling code.
Example: For Germany, you must enter +4917XXX instead of 017XXX if you will be dialling the number from outside the country.

Editing a phonebook entry (only with the SIM card inserted)

1. Press the **PHONE** button.
2. Select "**Phonebook**".
3. Select the phonebook entry you want.
4. Select "**Edit**".
5. Select the menu item to be edited and make the change you want in the relevant input menu.
6. Confirm your entry by selecting "**OK**".
7. Select "**Store entry**".
   The entry is stored on the SIM card.

Deleting a phonebook entry (only with the SIM card inserted)

1. Press the **PHONE** button.
2. Select "**Phonebook**".
3. Select the phonebook entry you want.
4. Select "**Delete**".
   A prompt is displayed asking whether the entry selected should actually be deleted.
5. Confirm the prompt by selecting "**Yes**".
   The phonebook entry is deleted.

Deleting the contents of the SIM card (only with the SIM card inserted)

1. Press the **PHONE** button.
2. Select "**Phonebook**".
3. Select any phonebook entry.
4. Select "**Delete**".
5. Select "**Delete SIM card**".
6. Confirm the prompt which then appears with "**Delete all**".

Sending a vCard

You can send phonebook entries directly as vCards. A vCard is an "electronic visiting card" that a recipient can accept directly into his or her phonebook.

1. Press the **PHONE** button.
2. Select "**Phonebook**".
3. Select the phonebook entry you want.
4. Select "**Send vCard**".
5. Select one of the two following transfer methods:
   – "**As SMS**"
   – "**To Bluetooth**"
6. If you choose "**As SMS**", you must enter the telephone number of the recipient in the input menu that appears.
   You can also select the number from the phonebook or call lists by selecting the corresponding menu item. To find out more, please refer to the section "Creating and sending a new text message" on page 85.

▷▷▷

   If you choose "**To Bluetooth**", the list of known devices that are suitable for a transfer is displayed. If the device you want is not there, you can search for further devices. To do this, press "**New data device**" (see also the section "Adding a new Bluetooth® device" on page 97).
   As soon as the search is complete, a list containing the devices found is displayed. Once you have selected a device in this list, a connection is established and the vCard is sent.

You can also send a destination entry from the personal destination memory of your navigation system as a vCard. To find out more about this, please refer to the section "Sending a destination" on page 149.

List of previous calls

When a mobile phone is connected to the PCM via a *Bluetooth*® connection, the mobile phone's call lists are transferred and displayed after the connection has been established. The last number dialled appears at the top of the list.

The transfer of the phonebook and call lists is not supported by all mobile phones.

If one of the telephone numbers matches an entry from your phonebook, the name of the person called is displayed instead of the telephone number.

Displaying the list

1. Press the **PHONE** button.
2. Select "**Previous calls**".
   The list of previous calls is displayed with the time and date of the calls, if this information is available in the PCM.

Calling a number from the list of previous calls

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Call number**".

Storing a number from the list of previous calls in the phonebook

This function is only available when there is a SIM card inserted.

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Store number**".
5. Enter the name corresponding to the number and store the entry.
   To find out more, please refer to the section "PCM phonebook" on page 76.

Deleting a number from the list of previous calls

Entries transferred from the mobile phone cannot be deleted in the PCM. Please delete these entries on your mobile phone.

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Delete**".
5. Confirm the prompt that appears by selecting "**Yes**".
   The number is deleted from the list.

Sending a message to a number from the list of previous calls

Messages can only be sent when a SIM card is inserted or a mobile phone is connected to the PCM using the SIM Access Profile.

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Send message**".
   The SMS input menu is opened. The number previously chosen is already entered as the recipient.
5. Enter and send your message.
   To find out more, please refer to the section "Replying to a text message" on page 84.

Adding to a number from the list of previous calls

1. Press the **PHONE** button.
2. Select "**Previous calls**".
3. Select the number you want.
4. Select "**Add to number**".
   The input menu is opened and the number is shown in the input field ready for editing.
5. Make the change you want.
6. Select "**Call number**".

The telephone number stored in the list is not changed.

List of received calls

When a mobile phone is connected to the PCM via a *Bluetooth*® connection, the mobile phone's call lists are transferred and displayed after the connection has been established. The last call received appears at the top of the list.

The transfer of the phonebook and call lists is not supported by all mobile phones.

If the date and time information for the individual calls is not transferred from the mobile phone, the list begins with the unanswered calls. These are then followed by the accepted calls.

If one of the telephone numbers matches an entry from your phonebook, the name of the caller is displayed instead of the telephone number.

Displaying the list

1. Press the **PHONE** button.
2. Select "**Received calls**".
   The list of received calls is displayed with the time and date of the calls, if this information is available in the PCM. It contains both accepted and missed calls.

Calling a number from the list of received calls

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number or name you want.
4. If there is more than one telephone number stored for a name, select the number you want.
5. Select "**Call number**".

Storing a number from the list of received calls in the phonebook

This function is only available when there is a SIM card inserted.

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number you want.
4. Select "**Store number**".
5. Enter the details you want.
   Please refer to the section "PCM phonebook" on page 76.

Deleting a number from the list of received calls

Entries transferred from the mobile phone cannot be deleted in the PCM. Please delete these entries on your mobile phone.

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number you want.
4. Select "**Delete**".
5. Confirm the prompt that appears by selecting "**Yes**".
6. The number is deleted from the list.

Sending a message to a number from the list of received calls

Messages can only be sent when a SIM card is inserted or a mobile phone is connected to the PCM using the SIM Access Profile.

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number you want.
4. Select "**Send message**".
   The SMS input menu is opened. The number previously chosen is already entered as the recipient.
5. Enter and send your message.
   To find out more, please refer to the section "Replying to a text message" on page 84.

Adding to a number from the list of received calls

1. Press the **PHONE** button.
2. Select "**Received calls**".
3. Select the number you want.
4. Select "**Add to number**".
   The input menu is opened and the number is shown in the input field ready for editing.
5. Make the change you want.
6. Select "**Call number**".

The telephone number stored in the list is not changed.

Touch tone dialling (DTMF tones)

DTMF (**D**ual **T**one **M**ulti **F**requency) tones can be sent once a telephone connection has been established. You need this function to communicate with touch tone-activated telephone systems (e.g. for controlling your voice mailbox or when dialling in remotely to your answering machine).

Touch tone dialling

1. Select "**Dial number**" in the call menu.
   The numerical input menu is opened.
2. Enter the digits you want.
   Each digit is **immediately** transmitted as a DTMF tone.

Combining DTMF tones with a telephone number

You can use the + and w characters in the numerical input menu to combine DTMF tone dialling with the entry of a telephone number.

+	The DTMF dialling digits are appended to the digits of the telephone number without any breaks. ▷ To enter the + character, touch and hold the **0+** symbol in the telephone input menu.
w	The digits of the telephone number are dialled first. As soon as the connection to the telephone number dialled has been established, the DTMF dialling digits must be confirmed again. ▷ To enter the w character, touch and hold the ***** symbol in the telephone input menu.
p	The digits of the telephone number are dialled first. The PCM then waits until the connection has been established before dialling the DTMF dialling digits. ▷▷▷

	The p character cannot be entered in the telephone input menu. It is, however, recognised by the PCM if it is stored in a telephone number on the SIM card, for example. In this case, the behaviour of the PCM is the same as the behaviour for "+" described above.

Establishing an additional call

You can establish an additional call while there is another call active.

Some mobile phones do not support making or accepting a second call. In this case, the "**New call**" menu item is greyed out during an active call.

1. Select "**New call**" in the call menu.
2. You then have the following options for entering the telephone number:
   – "**Dial number**":
   The input menu for telephone numbers is opened. Please refer to the section "Dialling a number" on page 75.
   – "**Phonebook**":
   You can insert a number stored in the phonebook. To find out more, please refer to the section "Calling a phonebook entry" on page 76.
   – "**Previous calls**":
   You can insert a telephone number from the list of previous calls. To find out more, please refer to the section "Calling a number from the list of previous calls" on page 78.
   – "**Received calls**":
   You can insert a telephone number from the list of received calls. To find out more, please refer to the section "Storing a number from the list of received calls in the phonebook" on page 79.

The original call is held while the new connection is established.
You can switch between the two calls or establish a conference call. To find out more, please refer to the section "Call waiting (swapping) and conference" on page 82.

Call waiting

The "**Call waiting**" function is only available if supported by the network provider.
The "**Call waiting**" function must also be activated in the call settings for the PCM or the mobile phone. To find out more, please refer also to the section "Call waiting (swapping) and conference" on page 65.

Rejecting a waiting call

If you receive another call while there is already one active, you will hear a call waiting tone.
The menu for the incoming call is displayed and a message appears in the bottom line.

▷ Select "**Reject**".
The waiting call is rejected. The caller hears a busy signal.
If the caller's telephone number is transmitted, the number or name appears in the "**Received calls**" list.

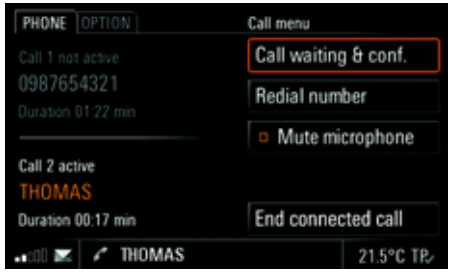
Accepting a waiting call

▷ Select “**Answer**”.
The waiting call is accepted and activated. The previously active call is put on hold.
You then have the option to switch between the two calls or to establish a conference with both callers. To find out more, please refer to the section “Call waiting (swapping) and conference” on page 82.

The PCM will not accept a third incoming call. The caller hears a busy signal or is redirected to the mailbox.

Ending a connected call

▷ Select “**End connected call**”.
The currently active call is ended and the first call that is on hold is activated again.



Call waiting (swapping) and conference

The “**Call waiting & conf.**” function is only available if supported by the network provider.
When using the *Bluetooth*® hands-free unit, this function is only available for a limited selection of devices.
A prerequisite for this function is that there are two calls, one of which is active and one of which is on hold (inactive). To find out more, please refer to the sections “Establishing an additional call” on page 63 and “Accepting a waiting call” on page 64.

▷ Select “**Call waiting & conf.**”.
You now have a number of options:

Swapping between the calls (call waiting)

1. Select “**Swap**”.
The system swaps to the other call. The previously active call is put on hold.
2. Select “**Swap**” again to return to the call on hold.
3. To end one of the two calls, select “**End call 1**” or “**End call 2**”.
- **or** -
Select “**End all**” to end both calls.

Conferencing the two calls

1. Select “**Conference**”.
Both calls are activated and connected so that all parties can speak to each other.
2. To end one of the two calls, select “**End call 1**” or “**End call 2**”.
- **or** -
Select “**End all**” to end the conference.

Using supplementary services

Supplementary services are services that can be called up using star and hash codes.
The supplementary services can either be entered in the number selection menu or selected in the phonebook (provided they have been stored here).

The last digit of a supplementary service is always the # character.

1. Press the **PHONE** button.
2. Select "**Dial number**".
   The input menu for telephone numbers is opened.
3. Select the individual digits and symbols of the supplementary service one after the other.
4. Select "**Send**".
   The respective service is called up.
   If the reply text is too long, it is truncated at the bottom right with "...".
5. If necessary, display the entire text by selecting "**Details**".

Making an emergency call

1. Press the **PHONE** button.
2. Select "**OPTION**".
3. Select "**Emergency call**".
4. Select one of the two menu items in the emergency call menu that appears:
   – **Yes**
   If you select "**Yes**", a connection is established to the emergency service.
   – **No**
   If you select "**No**", no emergency call is made. Instead the previous menu is opened again.

i You can also make an emergency call:

– during an active call,
– without having to enter a PIN,
– while the SIM card is being checked as well as
– without a valid SIM card (depending on the country and network).

If your vehicle is equipped with a navigation system, you can call up the current location information in the event of an emergency call. To do this, select the "**Location info**" function.

Text messages (SMS) (with PCM telephone only)

You can create and receive text messages (SMS) with the **Messages** function.

1. Press the **PHONE** button.
2. Select "**Messages**".
   The list of received text messages is opened. Small symbols indicate the status or type of the text messages:

unread text message,

read text message,

unread vCard,

read vCard.

vCards can be sent by other devices to the PCM via *Bluetooth*® or SMS.

Arrival of a text message

When a new text message arrives, a closed envelope symbol is displayed in the bottom line regardless of the menu selected.
If a flashing envelope symbol is displayed in the bottom line, it means there is no more storage space available on the SIM card for text messages. To be able to receive further messages, one or more saved messages must first be deleted.
To find out more, please refer to the section "Deleting a text message" on page 87.

The arrival of a text message can also be indicated by an audible signal.
To find out more, please refer to the section "Switching the SMS signal tone on/off" on page 100.

Arrival of a vCard

The arrival of a vCard is indicated by a message in the bottom line as well as by an audible signal. The envelope symbol in the bottom line is not displayed.

Reading a text message

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant text message by selecting it.

If you have received a text message with your mobile phone and cannot read it on the PCM display, this means that the text message was stored in your mobile phone's memory and not on the SIM card. The PCM does not have access to the mobile phone memory.
In this case, please check whether the storage location for the text messages can be changed in your mobile phone's settings.
Please consult the operating instructions for your mobile phone for this purpose.

Replying to a text message

The following options are available to you:

- "**New text**": The input menu is opened and new text can be entered.
- "**Attach reply**": The input menu is opened and the original text of the message is shown in the text field. You can edit or add to the text as you want.
- "**Reply with YES**": The input menu is opened and the original text of the message is shown in the text field. The reply "YES" is appended to the end of the text.
  You can edit or add to the text as you want.
- "**Reply with NO**": The input menu is opened and the original text of the message is shown in the text field. The reply "NO" is appended to the end of the text.
  You can edit or add to the text as you want.
- "**Templates**": A list of the message templates is opened and a template can be accepted or edited by selecting it.

Creating a reply with new text

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the text message you want to reply to.
4. Select "**Reply**".
5. Select "**New text**".
   The input menu is opened.
6. Enter the text you want using the input menu.
7. Confirm your entry by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened. The number of the sender of the text message is already entered in the text field.
8. Select "**Send**" to send the message.

Creating a text message with attached reply

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the text message you want to reply to.
4. Select "**Reply**".
5. Select "**Attach reply**".
   The input menu is opened. The reply is appended to the text received.
6. Edit the text as you want using the input menu and confirm by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened. The number of the sender of the text message is already entered in the text field.
7. Select "**Send**" to send the message.

Replying to a text message with Yes or No

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the text message you want to reply to.
4. Select "**Reply**".
5. Select "**Reply with YES**" or "**Reply with NO**".
   The input menu is opened.
6. Edit the text as you want using the input menu and confirm by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened. The number of the sender of the text message is already entered in the text field.
7. Select "**Send**" to send the message.

Replying to a text message using a text template

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the text message you want to reply to.
4. Select "**Reply**".
5. Select "**Templates**".
6. Select the template you want in the list that is displayed.
7. Select "**Edit template**" if applicable and make the changes you want in the text.
   Otherwise, select "**Use template**" and add any missing information.
8. Confirm your entry by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened. The number of the sender of the text message is already entered in the text field.
9. Select "**Send**" to send the message.

Creating and sending a new text message

The following options are available to you for creating a text message:

– "**New text**": The input menu is opened and new text can be entered.
– "**Last text**": The input menu is opened and the text of the last message is shown in the text field. You can edit or add to this text as you want.
– "**Templates**": A list of the message templates is opened and a template can be accepted or edited by selecting it.

Creating a text message with new text

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the first list entry, "**New message**", in the list that appears.
4. Select "**New text**". The input menu is opened.
5. Enter the text you want using the input menu.
6. Confirm your entry by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened.
7. Enter the telephone number of the recipient.
   The following options are available to you:
   – Enter the digits in the input menu.
   – Select "**Phonebook**" to insert the number from the phonebook.
     Select the number you want to enter it in the input menu.
   – Select "**Previous calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
   – Select "**Received calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
8. Select "**Send**" to send the message.

Editing and sending the text of the last message

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the first list entry, "**New message**", in the list that appears.
4. Select "**Last text**".
5. Edit the text displayed using the input menu and add to it if applicable.
6. Confirm your entry by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened.
7. Enter the telephone number of the recipient.
   The following options are available to you:
   – Enter the digits in the input menu.
   – Select "**Phonebook**" to insert the number from the phonebook.
     Select the number you want to enter it in the input menu.
   – Select "**Previous calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
   – Select "**Received calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
8. Select "**Send**" to send the message.

Creating a text message using a text template

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the first list entry, "**New message**", in the list that appears.
4. Select "**Templates**".
5. Select the template you want in the list that is displayed.
6. Select "**Edit template**" if applicable and make the changes you want in the text.
   Otherwise, select "**Use template**" and add any missing information.
7. Confirm your entry by selecting "**OK**".

8. Enter the telephone number of the recipient.
   The following options are available to you:
   – Enter the digits in the input menu.
   – Select "**Phonebook**" to insert the number from the phonebook.
     Select the number you want to enter it in the input menu.
   – Select "**Previous calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
   – Select "**Received calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
9. Select "**Send**" to send the message.

Forwarding a text message

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the text message you want to forward.
4. Select "**Forward**".
   The input menu is opened.
5. Edit the text message as you want and confirm by selecting "**OK**".
   The text input menu is closed and the input menu for the telephone number is opened.
6. Enter the telephone number of the recipient.
   The following options are available to you:
   – Enter the digits in the input menu.
   – Select "**Phonebook**" to insert the number from the phonebook.
     Select the number you want to enter it in the input menu.
   – Select "**Previous calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
   – Select "**Received calls**" to insert the number from the list.
     Select the number you want to enter it in the input menu.
7. Select "**Send**" to send the message.

Deleting a text message

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the text message you want to delete.
4. Select "**Delete**".
   You can then choose whether to delete the selected text message only or the entire list.

Deleting the selected text message

5. Confirm the prompt that appears by selecting "**Yes**".
   The selected text message is deleted.

Deleting all text messages

5. Select "**Delete all**".
6. Confirm the prompt that appears by selecting "**Delete all**" again.
   The text messages are deleted.

Reading a vCard

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant vCard by selecting it.
4. Select "**All details**" to view all of the details in the vCard.

Accepting vCards

If you save the vCard, the following data is accepted:

- the telephone numbers contained in the phonebook as well as
- the addresses in the personal destination memory in the navigation menu.
  To find out more, please refer also to the section “Personal destination memory” on page 146.

Accepting a single vCard

1. Press the **PHONE** button.
2. Select “**Messages**”.
3. Open the relevant vCard by selecting it.
4. Select “**Accept**”.
   The details of the vCard are checked.
5. Confirm the acceptance of the valid addresses and telephone numbers by selecting “**OK**”.

Accepting all vCards

1. Press the **PHONE** button.
2. Select “**Messages**”.
3. Open the relevant vCard by selecting it.
4. Select “**Accept all**”.
5. Select “**Accept all**” again to confirm the prompt that appears.
   The details of the vCards are checked and the valid addresses and telephone numbers are accepted.

Editing vCard details

The addresses and telephone numbers contained on a vCard are listed in the vCard details. The following symbols are used:

- Details are correct and are accepted when the vCard is saved.
- Details are correct, but are not accepted when the vCard is saved. An appropriate message will be displayed.
- **?** Details are not correct and can be changed or entered again if necessary.

The procedure for editing details is described below using address data as an example.

1. Press the **PHONE** button.
2. Select “**Messages**”.
3. Open the relevant vCard by selecting it.
4. Select “**Addresses**”.
   The addresses are checked.
5. Select the address with the “**?**” symbol.
   The address is checked again. A search for similar addresses is performed.
   If similar addresses are found, these are listed after the check is completed.

Inserting and editing a similar address

6. Select a similar address from the list.
7. Select “**Edit**” if applicable and make the changes you want in the address input menu.
8. Select “**Accept**”.

After selecting “**Accept**”, the address can no longer be edited.

Re-entering an address

6. Select "**Re-enter address**".
   The address input menu is opened.

If no similar addresses are found during checking, the address input menu opens automatically.

7. Enter the address you want.
8. Select "**Accept**".

After selecting "**Accept**", the address can no longer be edited.

Discarding (deleting) vCards

Discarding a single vCard

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant vCard by selecting it.
4. Select "**Discard**".
5. Confirm the prompt by selecting "**Yes**".
   The vCard is closed and deleted from the list of received messages.

Discarding all vCards

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant vCard by selecting it.
4. Select "**Discard**"
   > "**Discard all**".
5. Select "**Discard all**" again to confirm the prompt that appears.
   The vCards are closed and deleted from the list of received messages.

Numbers in text messages

If a text message contains telephone numbers or geographical coordinates, you can store these directly in the phonebook or list of personal destinations.

Calling telephone numbers from a text message

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant text message by selecting it.
4. Select "**Extract number**".
   A list of the numbers contained in the text message is displayed.
5. Select the number you want in the list.
6. Select "**Add to number**" if applicable and enter the necessary digits.
7. Select "**Call number**".
   The call is made.

Storing telephone numbers from a text message (only with the SIM card inserted)

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant text message by selecting it.
4. Select "**Extract number**".
   A list of the numbers contained in the text message is displayed.
5. Select the number you want in the list.
6. Select "**Store number**".
7. Enter the details you want.
   To find out more, please refer to the section "PCM phonebook" on page 76.

Using geographical coordinates for route guidance

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select "**Extract number**".
4. Open the relevant geographical coordinate by selecting it.
   The map view is displayed and the geographical coordinate is shown. To find out more, please refer also to the section "Map display" on page 166.
5. Select "**Start route guidance**".
   The route is calculated and route guidance starts.

Storing geographical coordinates

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select "**Extract number**".
4. Open the relevant geographical coordinate by selecting it.
   The map view is displayed and the geographical coordinate is shown. To find out more, please refer also to the section "Map display" on page 166.
5. Select "**Store position**".
   The input menu is opened and the coordinate is entered in the input field.
6. Enter the name of the geographical coordinate and confirm your entry by selecting "**OK**".
   The geographical coordinate is stored in the list of personal destinations and the map view is displayed again.

Displaying the complete text

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Open the relevant text message by selecting it.
4. Select "**Complete text**".
   The contents of the text message are shown across the entire display.

Creating a template

Included in the list of templates are some blank entries that you can edit as you want.

1. Press the **PHONE** button.
2. Select "**Messages**".
3. Select the first list entry, "**New message**", in the list that appears.
4. Select "**Templates**".
5. Select a blank template in the list that is displayed.
6. Select "**Edit template**" and enter the text you want.
7. Confirm your entry by selecting "**OK**".
   The template is saved with the entered contents and will be subsequently displayed in the list.
8. Select "**Use template**" and add any missing information.
9. Enter the telephone number as described in the section "Creating a text message using a text template" on page 86.
10. Select "**Send**" to send the edited template.

Telephone settings (PCM telephone)

Switching the PCM telephone on/off

Switching the telephone on

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**"
   > "**Switch on telephone**".
   The telephone is switched on.

Switching the telephone off

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**"
   > "**Switch off telephone**".
   The telephone is switched off. All functions not dependent on the telephone are still available.

Setting ringtones

Setting the ringtone type

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**"
   > "**Sound PHONE**"
   > "**Ringtone type**".
   A list of the available ringtones is displayed.
4. Set the ringtone you want by selecting it.
   The ringtone type is played after it is selected.
5. Change the volume of the ringtone type if necessary by turning the left rotary knob.
   The volume level set in this way is saved when you exit the menu.

If the connected mobile phone supports the transfer of the ringtone via *Bluetooth*® (inband ringing), the Ringtone settings item is greyed out and the ringtone must be set on the mobile phone.

Setting the ringtone volume

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**"
   > "**Sound PHONE**"
   > "**Ringtone volume**".
4. Make the setting you want by turning the right rotary knob or by selecting the two symbols and .

Selecting a network

You can set your PCM so that the network will be automatically or manually selected.

This function is only available with the SIM card inserted or with a connection using the SIM Access Profile.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**"
   > "**Network selection**".

4. Select one of the two available menu items:
   – **Automatic**
     The PCM automatically selects the mobile phone network of the SIM card that is logged in.
     If this network is not found (e.g. when abroad), the network of a roaming partner is automatically selected.
   – **Manual**
     If you select **Manual**, the PCM telephone searches for the currently available networks, from which you can choose the mobile phone network you want to use.

If a manually selected network is lost for more than 10 seconds, the system switches to automatic network selection.

Displaying the IMEI

The IMEI (**I**nternational **M**obile **E**quipment **I**dentity) is a serial number that permits unique identification of the hardware in mobile radio equipment. This number allows different network providers to block the telephone in the event of misuse.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**"
   > "**IMEI**".
   The device number is displayed.

Switching 3-way calling on/off

Problems may occur with 3-way calling on the PCM as these functions are not correctly supported by all mobile phones and telephone networks (in particular CDMA networks).
It is recommended that 3-way calling be switched off in such cases in order to ensure reliable telephone operation.

This function is only available if your mobile phone is connected to the PCM using the Hands-Free Profile.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Telephone settings**".
4. Select "**3-way calling**" to activate (☑) or deactivate (☐) the function.

SIM settings

This function is only available with the SIM card inserted or with a connection using the SIM Access Profile.

Changing the PIN

This function allows you to change the PIN of your SIM card.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**SIM settings**"
   > "**Change PIN**".
   The input menu for PIN entry is displayed. You must start by entering the current PIN.
4. Enter the current PIN by selecting the buttons on the keypad shown and confirm your entry by selecting "**OK**".
   You are then prompted to enter the new PIN.

5. Enter the new PIN by selecting the buttons on the keypad shown and confirm your entry by selecting "**OK**".
   You are then prompted to enter the new PIN a second time to confirm it.
6. Enter and confirm the new PIN again.
   If the two new PINs match you will see the message "**PIN has been changed**".
   If the two entries do not match, you will be prompted to enter the new PIN again.

Switching the PIN prompt on or off

The "**PIN prompt**" function allows you to switch the PIN prompt on and off.
If the function is activated, you will be prompted for the PIN after you insert the SIM card. If the function is deactivated, the PIN prompt is deactivated.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**SIM settings**".
4. Select "**PIN prompt**" to activate (☑) or deactivate (☐) the function.
5. Enter the PIN if necessary.
   The PIN prompt is switched on or off if the PIN is entered correctly.

The PIN prompt cannot be switched off with some SIM cards.
The PIN cannot be changed using the "**Change PIN**" function while the PIN prompt is switched off.

Using a stored PIN

If the "**Last PIN**" function is activated, the PIN of the SIM card currently inserted is stored. The next time you insert the SIM card, the stored PIN is automatically used for the prompt.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**SIM settings**".
4. Select "**Last PIN**" to activate (☑) or deactivate (☐) the function.

If an incorrect PIN entry is registered after the SIM card is inserted, the last PIN will not be used any further. The input menu and the number of attempts still possible are displayed instead.

Call settings (PCM telephone)

This function is only available with the SIM card inserted or with a connection using the SIM Access Profile.

Activating call forwarding

Call forwarding allows you to forward (divert) calls to another telephone number (e.g. to your answering machine).
When you first access the call forwarding system, the status of all call diversions in the network is automatically queried. The individual call forwarding functions cannot be selected during this time.

Activating and deactivating call forwarding is not supported in all networks.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Call settings**"
   > "**Call forwarding**".

4. Select one of the following settings for call forwarding:
   – **Divert all**
     activates call forwarding for all incoming calls.
   – **Busy**
     activates call forwarding for calls that come in while you are on another call.
     To be able to activate call forwarding with the "**Busy**" setting, the "**Call waiting**" function must be switched off first.
   – **No answer**
     activates call forwarding for calls that you cannot or do not want to accept. The call is forwarded to the entered number after a certain time.
   – **Cannot be reached**
     activates call forwarding for calls that come in while the telephone is switched off or is not ready to receive calls.
   – **Cancel all**
     deactivates all call diversions at once. The telephone numbers entered for the individual call diversions remain saved in the network and are displayed again the next time call forwarding is activated.
5. Select "**Switch on**".
   The input menu is opened.
6. Enter the telephone number you want for the call diversion and confirm your entry by selecting "**OK**".
   - **or** -
   Select "**Phonebook**".
   After selecting **Phonebook** you can select a number from the phonebook. The call is then diverted to this number.
7. If you set the "**No answer**" call diversion type, you also need to set the delay after which the calls are to be diverted.
   Select "**Delay**".
   Set the delay you want by selecting it in the list that appears.
   The relevant call diversion is then activated and the settings are shown on the display.

Checking the status of the call diversion

1. Select the type of call forwarding you want.
2. Select "**Check status**".
   The current status is then queried in the network and shown on the display after a few seconds.

Deactivating call forwarding

1. Select the type of call forwarding you want.
2. Select "**Switch off**".
   The corresponding call diversion is deactivated.

Switching the "Call waiting" function on/off

If the "**Call waiting**" function is activated, an incoming call will be indicated during an active call.
The caller hears a ringing tone.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
1. Select "**SET PHONE**"
   > "**Call settings**"
   > "**Call waiting**".
2. Select one of the following options:
   – Select "**Switch on**" to **activate** the function.
   – Select "**Switch off**" to **deactivate** the function.
   – Select "**Check status**" if the current status is unknown and should be queried in the network.
     The current status will be displayed in the information area as soon as the query is answered.

Switching the “Redial” function on/off

If the “**Redial**” function is activated, the telephone automatically redials a number that could not be reached because the line was busy.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PHONE**” > “**Call settings**”.
4. Select “**Redial**” to activate (☑) or deactivate (☐) the function.

Setting transfer of your own number

If the “**Send own number**” function is activated, your own telephone number will be sent to the other party.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PHONE**” > “**Call settings**” > “**Send own number**”.
4. Select one of the following menu items:
   – “**Yes**” if you want to send your own number.
   – “**No**” if you want to suppress sending of your own number.
   – “**As network**” if you want to adopt the network operator or provider’s setting.

Depending on the network operator or provider, it may not be possible to switch off sending of your own number.
If you need to dial numbers with special characters (+, #, or *), you must choose the “**As network**” setting.

Setting automatic call answering

If the “**Auto. answer**” function is activated, the PCM automatically answers all incoming calls after the first ring. The active audio source is muted and the hands-free function automatically activated.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PHONE**” > “**Call settings**”.
4. Select “**Auto. answer**” to activate (☑) or deactivate (☐) the function.

Bluetooth® settings (PCM telephone)

Authorised *Bluetooth*® devices

This function allows you to display a list of the *Bluetooth*® devices currently authorised to connect with your PCM. The list contains:

– mobile phones ,
– MP3 players ,
– headsets as well as
– data devices .

Displaying authorised *Bluetooth*® devices

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PHONE**” > “**Bluetooth settings**” > “**Device list**”.

Devices that can be connected with the PCM using different profiles appear only once in the list. The symbol used always corresponds to the main application. Mobile phones that can also be used as MP3 players or data devices appear in this list with the telephone symbol.

Connecting an authorised *Bluetooth*® device with the PCM

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Connect**".

Data devices cannot be connected from the list of devices; they can only be connected by calling the appropriate application, for example when transferring a vCard.

Disconnecting an authorised and connected *Bluetooth*® device from the PCM

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Disconnect**".

Renaming an authorised *Bluetooth*® device

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Rename**".
   The input menu is opened.
4. Enter the name you want and confirm by selecting "**OK**".
   The name of the device is now changed in the PCM.

Deleting an authorised *Bluetooth*® device from the list

1. Open the list of authorised *Bluetooth*® devices.
2. Select the device you want in the list.
3. Select "**Delete**".
4. Confirm the prompt that appears by selecting "**Yes**".

Deleting the list of authorised *Bluetooth*® devices

1. Open the list of authorised *Bluetooth*® devices.
2. Select any device in the list.
3. Select "**Delete**".
4. Select "**Delete list**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Setting the profile of the authorised *Bluetooth*® device

With mobile phones that support both the SIM Access Profile and the Hands-Free Profile you can switch between the two profiles.

1. Open the list of authorised *Bluetooth*® devices.
2. Select any device in the list.
3. Select "**SIM access on**" or "**SIM access off**" depending on whether you want to activate or deactivate SIM card access.
4. Confirm the prompt that appears by selecting "**Yes**".

The switchover option is only available for mobile phones that support both profiles. This function is not available in all other cases.

Displaying details for the authorised *Bluetooth*® device

1. Open the list of authorised *Bluetooth*® devices.
2. Select any device in the list.
3. Select "**Device details**".
   The following information is displayed:
   – the device name,
   – the *Bluetooth*® address,
   – the connection quality as well as
   – the supported services.

Adding a new *Bluetooth*® device

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible".
If you want to connect a mobile phone using the SIM Access Profile, external SIM mode needs to be activated on some devices.
Further details can be found in the operating manual for your mobile phone.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Bluetooth settings**"
   > "**New device**".
   A search is started and a list of the devices found is displayed.
4. Choose the device you want by selecting it in the list.
   A *Bluetooth*® code is displayed that you must enter in the corresponding *Bluetooth*® device. Once you have entered the code, successful authorisation of the device is shown on the display.

With some mobile phones, the connection request by the PCM must be explicitly confirmed on the mobile phone. This may even have to be done a number of times in some cases, for example before transferring the phonebook.
To avoid this request, you can authorise the PCM in your mobile phone's list of devices. The connection will then be established automatically in the future, without the need for further checks.
Further details can be found in the operating manual for your mobile phone.

It can take a few seconds for the *Bluetooth*® device to be authorised.
If the list of authorised *Bluetooth*® devices is full (max. 5 mobile phones), you must first delete a device from the list. An appropriate message will be displayed. To find out more, please refer to the section "Deleting an authorised Bluetooth® device from the list" on page 96.

Setting visibility

To ensure that your PCM can be connected to other devices via the *Bluetooth*® interface, it must be "visible" (=recognisable) for other devices during the connection operation.
To increase security, you can deactivate visibility of the PCM after the connection operation.
To prevent further unwanted connection requests, you can deactivate visibility of the PCM after the connection operation.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Bluetooth settings**".
   > Select "**PCM visible**" to activate (☑) or deactivate (☐) visibility of the PCM.

Finding the cordless handset

This function starts the search for the cordless handset.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Bluetooth settings**"
   > "**Find handset**".
   The search is started. If the handset has been found and is not in the charging cradle, it will ring in confirmation and to help you locate it in the vehicle.

Phonebook settings

Setting the memory for the phonebook

You can set whether the phonebook entries on the SIM card, the phonebook entries in the telephone memory and/or the vCards stored in the PCM should be used for the display in the phonebook. This allows you to adapt the phonebook list of the PCM to your list in the mobile phone.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Phonebook settings**"
   > "**Phonebook memory**".
4. Make the setting you want by selecting it.

If the transfer of the phonebook data from your mobile phone to the PCM fails, it may be because your mobile phone is working with security mechanisms that affect transfer using the "Phone Book Access Profile" (PBAP).

▷▷▷

These security mechanisms require the PCM to be authorised on your mobile phone. As part of this, the telephone requests a “user ID” and a “password” from the PCM. In order for the PCM to gain access to the phonebook, it must log into the telephone.
Since the PCM uses the fixed parameters “UserID: PCM3” and “Pass: 0000” for this login, these parameters must be preset as permissible on your mobile phone.
Please refer to the operating instructions for your mobile phone to find out whether these settings are required on your mobile phone and how to configure them.

Setting sorting

You can adapt the sorting of the phonebook and call lists to the display on your mobile phone.

You have the following options for **sorting the phonebook**:

– “**Standard**”
The phonebook is sorted by surname.
– “**Alternative**”
The phonebook is sorted by first name.

You have the following options for **sorting the call lists**:

– “**Standard**”
The call lists are sorted in the same order in which the entries were transferred from the mobile phone.
– “**Alternative**”
The order of the entries transferred from the mobile phone is reversed. This option supports some mobile phones that transfer the oldest entries first.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PHONE**”
> “**Phonebook settings**”
> “**Sorting**”.

Setting sorting of the phonebook

4. Select “**Phonebook**”.
5. Select the sorting you want.

Setting sorting of the call lists

4 Select “**Call lists**”.
5. Select the sorting you want.

Setting automatic transfer of the phonebook

If the “**Auto update**” function is activated, the phonebook and the call lists of a mobile phone are transferred as soon as the PCM is connected to this mobile phone.
The data stored in the PCM is replaced by the current phonebook and current call lists from the mobile phone as soon as transfer is complete.
If the “**Auto update**” function is deactivated, the data will no longer be updated.

This function is not supported by all mobile phones.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PHONE**”
> “**Phonebook settings**”.
4. Select “**Auto update**” to activate (☑) or deactivate (☐) the function.

Your phonebook data can then only be accessed when the corresponding mobile phone is connected to the PCM.

Transferring the phonebook

This function transfers the phonebook and call lists of the connected mobile phone into the PCM again. The data stored in the PCM is replaced by the current phonebook and current lists from the mobile phone when transfer is complete.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Phonebook settings**"
   > "**Transfer phonebook**".

Deleting the phonebook

The copy of the phonebook transferred to the PCM can be deleted again.
Your mobile phone's phonebook remains unchanged.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Phonebook settings**"
   > "**Delete phonebook**".

Settings for messages and data (PCM telephone)

This function is only available with the SIM card inserted or with a connection using the SIM Access Profile.

Changing the number of the SMS service centre

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Messages/data**"
   > "**SMS service centre**".
   The input menu for telephone numbers is opened. The current number is entered in the input field.
4. Enter the telephone number you want and confirm your entry by pressing "**OK**".

Switching the SMS signal tone on/off

The signal tone, which sounds when there is an incoming text message, can be switched on and off.

1. Press the **PHONE** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PHONE**"
   > "**Messages/data**".
4. Select "**SMS signal tone**" to activate (☑) or deactivate (☐) the function.

Cordless handset

There is a cordless handset available for your PCM.

Using a handset while driving is not permitted in all countries. Therefore, please observe the country-specific laws and regulations.

Once the internal telephone is switched on, the SIM card inserted and the PIN entered, most of the functions of the internal telephone will also be available on the handset. You can even enter the PIN on either the handset or the PCM.

In order to increase battery life, the display is switched off after a certain time, provided the handset is not in the charging cradle.

If a mobile phone is connected to the PCM using the Hands-Free Profile, the handset functions are not available.

Switching the cordless handset on/off

▷ Press and hold the End call button for a few seconds to switch the handset on or off.

Charging the cordless handset

▷ Place the handset in the charging cradle.

General operation

Once you have entered the PIN, the telephone logs into a mobile phone network. On the display of the cordless handset you will see the network provider's logo, the current signal strength, the *Bluetooth*® symbol, the charge level of the battery and two menu items.

You can select or open the menu items using the selection buttons beneath them. In many cases this brings you to a further menu.

You navigate within the individual menus using the rocker button that can be pressed at the top, bottom, left and right edges to move the highlighting in the respective direction.

Pressing the right selection button under the "**Back**" menu item brings you to the last menu opened or the next menu level up.

Accepting a call

As soon as a call comes in, a menu is temporarily displayed on the display of the handset.
If available, the telephone number is displayed together with the name of the caller (if an assignment to an entry stored in the phonebook is possible).

▷ Press the left selection button under the "**Accept.**" menu item.

- **or** -

▷ Press the Lift handset button on the handset.

If the handset is not in the cradle, the ringtone of the PCM is accompanied by a further audio signal.

Ending a call

▷ Press the right selection button under the "**End**" menu item.

- **or** -

▷ Press the End call button on the handset.

Rejecting a call

▷ When there is a call incoming, press the right selection button under the "**Reject**" menu item.

Dialling a number

1. Enter the individual digits in the telephone number one after the other using the keypad.
2. Press the left selection button under the "**Call**" menu item.
   The telephone call is established and the call menu is displayed.
   If the number dialled is busy, this will be indicated by a message on the display.

Always enter the telephone number with the dialling code.
You can correct an incorrectly entered number by pressing the right selection button under the "**Delete**" menu item.

Temporarily muting the handset microphone

You can mute the handset microphone during a phone call.

1. Press the left selection button under the "**Options**" menu item.
2. Select the "**Microphone mute**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item to activate (☑) or deactivate (☐) the function.

Establishing an additional call

You can establish a further connection with the "**New call**" function. You can either:

– enter a new telephone number or
– display and call entries from the phonebook, the list of previous calls or the list of received calls.

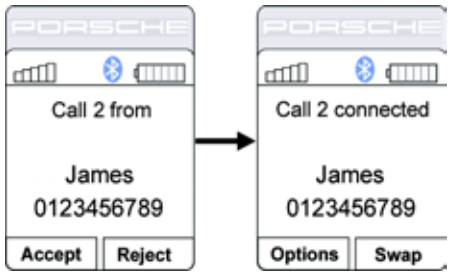
Entering a new telephone number

1. Press the left selection button under the “**Options**” menu item.
2. Select the “**New call**” menu item using the rocker button.
3. Press the left selection button under the “**Selection**” menu item.
4. Enter the individual digits in the telephone number one after the other using the keypad.
5. Press the left selection button under the “**Call**” menu item.

Calling an entry from one of the lists

1. Press the left selection button under the “**Options**” menu item.
2. Select the “**New call**” menu item using the rocker button.
3. Press the left selection button under the “**Selection**” menu item.
4. Select the list you want using the rocker button.
5. Press the left selection button under the “**Selection**” menu item.
6. Select the list item you want using the rocker button.
7. Press the left selection button under the “**Options**” menu item.
8. Select “**Call**” using the rocker button.
9. Press the left selection button under the “**Selection**” menu item.

The active call is retained if the second connection is established.
You can switch between the two calls or hold a conference call.



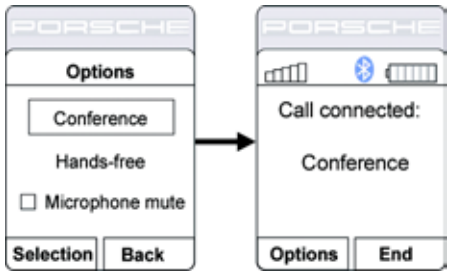
Call waiting (swapping) and conference

The call waiting (swapping) and conference functions are only available if supported and unlocked by the network provider.

Call waiting (swapping)

While you are on a call, you may receive a call from someone else.

1. Press the left selection button under the “**Accept.**” menu item if you would like to accept the incoming call.
2. Press the right selection button under the “**Swap**” menu item to swap between the two calls.



Conference

1. Press the left selection button under the "**Options**" menu item as soon as you are connected with two callers.
2. Select the "**Conference**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item.
   The two calls are connected and the display shows that you are conferenced.
4. Press the right selection button under the "**End**" menu item to end the two calls.

Phonebook

If your mobile phone is connected to the PCM using the SIM Access Profile, the data from the telephone memory and from the SIM card will be transferred. Memory entries may contain multiple telephone numbers for a name in this case.

Displaying the phonebook

▷ Press the right selection button under the "**Phonebook**" menu item.

- **or** -

▷ Press the rocker button upwards or downwards in the main menu of the handset.

Calling a phonebook entry

1. Open the phonebook.
2. Select the phonebook entry you want using the rocker button.
3. Press the left selection button under the "**Options**" menu item.
4. Select "**Call**" using the rocker button and press the left selection button under the "**Selection**" menu item.
   - **or** -
   Press the Lift handset button.

You can use the "**Search**" option to search for specific entries in the phonebook. This is useful if there are many entries in your phonebook and you don't want to have to scroll through the entire list.

Creating and storing a phonebook entry (only with the SIM card inserted)

1. Open the phonebook.
2. Press the left selection button under the "**Options**" menu item.
3. Select "**New entry**" using the rocker button.
4. Press the left selection button under the "**Selection**" menu item.
5. Enter the name for the new phonebook entry.
The letters on the keypad are active while you are entering the name.
This means you can enter the letters a, b and c, for example, by pressing the digit 2 repeatedly.
The digits are reactivated while entering a telephone number.
The input mode can be switched using the "**#**" button.
6. Press the left selection button under the "**OK**" menu item.

7. Enter the number for the new phonebook entry.
8. Press the left selection button under the "**OK**" menu item.
   The data is stored on the SIM card. An appropriate message is displayed if there is no more space on the SIM card.

Editing a phonebook entry (only with the SIM card inserted)

1. Open the phonebook.
2. Select the phonebook entry you want using the rocker button.
3. Press the left selection button under the "**Options**" menu item.
4. Select "**Edit entry**" using the rocker button.
5. Press the left selection button under the "**Selection**" menu item.
6. Edit the name of the phonebook entry as you want.
7. Press the left selection button under the "**OK**" menu item.
8. Edit the telephone number of the phonebook entry as you want.
9. Press the left selection button under the "**OK**" menu item.
   The phonebook entry is stored.

Deleting a phonebook entry

1. Open the phonebook.
2. Select the phonebook entry you want using the rocker button.
3. Press the left selection button under the "**Options**" menu item.
4. Select "**Delete entry**" using the rocker button.
5. Press the left selection button under the "**Selection**" menu item.
6. Press the left selection button under the "**Yes**" menu item to confirm the prompt.

Text messages (SMS)

Some menu items are not available before the SMS list is loaded.

Reading a text message

1. Press the left selection button under the "**Menu**" menu item.
2. Select the "**Messages**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item.
4. Select the "**Input**" menu item using the rocker button.
5. Press the left selection button under the "**Selection**" menu item.
   The stored messages are listed. Small symbols (open or closed envelopes) indicate whether or not the message has already been read.
6. Select the message you want using the rocker button.
7. Press the left selection button under the "**Options**" menu item.
8. Select the "**Read**" menu item using the rocker button.
9. Press the left selection button under the "**Selection**" menu item.
   The text message is opened.

Replying to/forwarding a text message

1. Press the left selection button under the "**Menu**" menu item.
2. Select the "**Messages**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item.
4. Select the "**Input**" menu item using the rocker button.
5. Press the left selection button under the "**Selection**" menu item.

6. Select the message you want using the rocker button.
7. Press the left selection button under the "**Options**" menu item.
8. Using the rocker button, select "**Reply**" or "**Forward**" depending on the function you want to use.
9. Press the left selection button under the "**Selection**" menu item.
10. Enter the text using the letters on the keypad.
11. Press the left selection button under the "**Options**" menu item.
12. Select the "**Send**" menu item using the rocker button.
13. Press the left selection button under the "**Selection**" menu item.
    The telephone number of the text message sender is displayed.
14. Press the left selection button under the "**OK**" menu item.
    The text message is sent.

Creating and sending a new text message

1. Press the left selection button under the "**Menu**" menu item.
2. Select the "**Messages**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item.
4. Select the "**Compose**" menu item using the rocker button.
5. Press the left selection button under the "**Selection**" menu item.
6. Enter the text using the letters on the keypad.
   The letters on the keypad are active while you are entering the name. This means you can enter the letters a, b and c, for example, by pressing the digit 2 repeatedly.
   The digits are reactivated while entering a telephone number.
   Use the # button to switch the input mode between uppercase, lowercase and digits.

i If you want to insert the text from a template, select the "**Discard template**" menu item, highlight the template you want using the rocker button and insert it by pressing the left selection button under the "**Selection**" menu item.

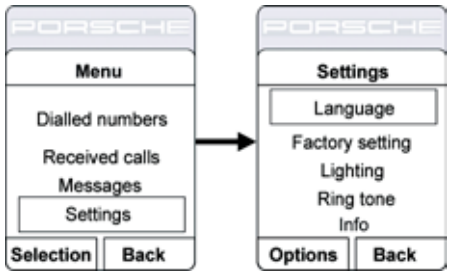
7. Press the left selection button under the "**Options**" menu item.
8. Select the "**Send**" menu item using the rocker button.
9. Press the left selection button under the "**Selection**" menu item.
10. Enter the telephone number.
11. Press the left selection button under the "**OK**" menu item.
    The text message is sent.

i Please proceed as follows if you want to send the message to a telephone number from the phonebook or from one of the two lists ("**Previous calls**" and "**Received calls**"):

12. Press the left selection button under the "**Search**" menu item.
13. Select the list you want ("Phonebook", "**Previous calls**" and "**Received calls**") using the rocker button.
14. Select the entry you want.
15. Press the left selection button under the "**Selection**" menu item.
    The number is inserted in the text field.
16. Press the left selection button under the "**OK**" menu item.
    The text message is sent.

Deleting a text message

1. Press the left selection button under the "**Menu**" menu item.
2. Select the "**Messages**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item.
4. Press the left selection button under the "**Options**" menu item.
5. Select the "**Input**" menu item using the rocker button.
6. Press the left selection button under the "**Selection**" menu item.
7. Select the message you want using the rocker button.
8. Press the left selection button under the "**Options**" menu item.
9. Using the rocker button, select the "**Delete**" menu item if you only want to delete the selected text message.
   Or:
   Using the rocker button, select the "**Delete all**" menu item if you want to delete all saved text messages.
10. Press the left selection button under the "**Yes**" menu item to delete the message.



Settings

1. Press the left selection button under the "**Menu**" menu item.
2. Select the "**Settings**" menu item using the rocker button.
3. Press the left selection button under the "**Selection**" menu item.
   You then have the following options:
   – "**Language**":
   Under this menu item you can set the menu language you want for the handset.
   – "**Factory setting**":
   Under this menu item you can reset the handset to the factory settings.
   – "**Lighting**":
   Under this menu item you can enter a value for the illumination of the handset display.
   – "**Ring tone**":
   Under this menu item you can set the volume and profile (ascending volume) for the handset ringtone.
   – "**Info**":
   Under this menu item you will find details of the hardware and software used in your handset.
4. Select the menu item you want.
5. Press the left selection button under the "**Options**" menu item.
6. Select the setting you want.
7. Press the left selection button under the "**OK**" menu item.

INFO

Displaying traffic messages (TMC)..... 109
Displaying sections of the route 111
Displaying information about the location 111
Displaying detailed information about the
active audio source..... 111

In the **INFO** menu you will find various general information such as the current audio source, the date and time and the signal strength for your telephone network.
You also have the option to call up more detailed information about the traffic situation, your current location, the individual sections in your route or the current audio source.

Displaying traffic messages (TMC)

Various FM radio stations transmit traffic messages in addition to their radio programme (TMC messages = **T**raffic **M**essage **C**hannel). The PCM evaluates and displays this information.
In some countries (e.g. Great Britain and France), the TMC information transmitted can vary significantly depending on the local radio station tuned into.
The navigation system takes these traffic messages into consideration during dynamic route calculation.

The broadcasting stations are responsible for the quality of the traffic messages. We therefore cannot accept any liability for the completeness and correctness of the information.

Austria: The location and event code was made available by ASFINAG and BMVIT.

You can display the current traffic messages in a list. If the route guidance component of your navigation system is active, the traffic messages on your route are displayed in a separate list.
The following types of traffic messages are differentiated:

- Objects on the road
- Objects on a section of the current, personal route
- Accident
- Accident on a section of the current, personal route
- Roadworks
- Roadworks on a section of the current, personal route
- Slow moving traffic or traffic jam
- Slow moving traffic or traffic jam on a section of the current, personal route

Accident hazard

Accident hazard on a section of the current, personal route

Route section blocked

Section of the current, personal route blocked

Information

Information concerning a section of the current, personal route

1. Press the **INFO** button.
2. Select "**Traffic messages**".
   If route guidance is active, the current traffic messages on your route are listed.
3. Select "**All traffic messages**" if necessary.
   A list containing all current traffic messages is opened. The traffic messages on your route are highlighted in orange in this list.

4. Select a traffic message from the list to call up more detailed information on it.
   You then see a map section showing the route section in question as well as the full text of the traffic message.

5. You can change the map scale if necessary by selecting the two symbols + and −.
   You can scroll through the messages by selecting the symbols ◁ and ▷ or by turning the right rotary knob.
   In the case of very long traffic messages, you can scroll to the previous or next page by selecting the symbols ◁ and ▷.

Displaying sections of the route

If you have started the route guidance component of your navigation system, a list containing all sections of your route will be displayed.
This function is not available during trace recording of off-road navigation.

1. Press the **INFO** button.
2. Select "**Route list**".
   The sections of your route are listed and displayed.
   The section you are currently driving on is at the very top of this list and the final destination at the very bottom.
3. Select the section you want for a more detailed view.
   You then see a map section showing the route section in question.
4. You can change the map scale if necessary by selecting the two symbols and .
   You can scroll through the various sections by selecting the symbols and or by turning the right rotary knob .
5. If you wish to detour around this section of your route, select "**Detour**".
   To find out more about setting detours, please refer to the section "Setting a detour" on page 153.

Displaying information about the location

This function displays the precise data for your current location.
If the route guidance component of your navigation system is active, the next route section is also displayed.

1. Press the **INFO** button.
2. Select "**Location info**".
   The information about your current location and its environs is displayed.

Displaying detailed information about the active audio source

This function displays information about the audio source currently active. The menu display is adapted to the active audio source.
The procedure for calling up the detailed information during radio mode is described here as an example.

1. Press the **INFO** button.
2. Select "**Details FM**".
   The available information is displayed.

If the display of the radio text has been switched off in the **TUNER** menu, it will not be displayed here either. To find out more, please refer to the section "Switching RDS radio text on/off" on page 25.
In TV mode with digital reception, the station, the start/end time, the name of the current programme, the progress bar (showing how far along the programme is) and the genre are displayed. Further details about the programme can also be displayed in a list. If the text extends beyond the page, you can scroll through the text using the symbols and or by turning the right rotary knob .
The availability and amount of additional information transmitted varies from station to station. With analogue reception, only the name of the station and the channel on which the programme is being broadcast are displayed.

CAR

Trip data display 113
Setting the display group 113
Setting the contents of the personal display 113
Resetting trip data 114
ParkAssist 114
Deactivating ParkAssist 115
Switching the ParkAssist display on/off 115
Closing the ParkAssist display 115
Rear view camera 116
Switching the rear view camera display on/off 116
Closing the rear view camera display 117
Switching grid lines for the rear view camera on/off 117
Parking with the rear view camera display 117
Picture settings for the rear view camera 117
Combining ParkAssist and the rear view camera display 118
Logbook 119
Activating/deactivating the logbook 119
Activating/deactivating the logbook reminder 119
Setting the standard trip for the logbook 119
Editing data from the current trip 120
Continuing recording from the last trip 121
Storing a refuelling stop 122
Viewing the list of stored trips 122
Managing the logbook lists 122
Deleting trips 123
Transferring the logbook data 124
Bluetooth® settings 124
The Sport display 127
Starting recording 127
Stopping recording 128
Continuing recording 128
Ending a lap/starting a new lap 129
Timing the interval 129
Evaluating a recording 129
Renaming a recording 130
Deleting recordings 130
Deleting a lap 130
Storing a lap as the reference lap 131
Defining the reference lap 131
Resetting the defined reference lap 131
Renaming the reference lap 131
Deleting the reference lap 131
Deleting all laps 132
Setting the display of additional data 132
Transferring data 132
Bluetooth® settings 133
Extended memory 135
Setting light options 135
Setting wiper options 136
Setting reversing options 137
Setting comfort options 137
Choosing the options for setting the air conditioning 137

Trip data display

The CAR menu provides you with a variety of useful trip data such as the trip time, distance covered, average speed and average fuel consumption.
The following display groups are differentiated depending on the vehicle's equipment:

– **Total trip data**
The trip data is totalled continuously until reset. The trip data is retained even after the vehicle has been stationary (with the ignition key removed) for relatively long periods.
– **Trip data since ...**
The trip data is automatically reset after the car has been parked for 2 hours (with the ignition key removed).
– **Personal trip data**
The trip data can be individually compiled in four data fields.
– **Sport display**
Lap data can be recorded and evaluated using the stopwatch and the PCM.
The data of relevance for the evaluation is shown in the Sport display as soon as recording is started.

The number of displays available to you is shown between the two arrow symbols ◁ and ▷.

Setting the display group

▷ Touch the ◁ and ▷ symbols.

- **or** -

▷ Turn the right rotary knob ◖◉◗.

Setting the contents of the personal display

You can configure the contents of the individual data fields for the "**Personal trip data**" yourself. You can choose between general information such as date, time or outside temperature as well as various data fields from the navigation area such as arrival times, average speeds or consumption.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
> "**Personal settings**".
4. Select the data field to be changed.
A list containing multiple menu items is opened.
5. Select the menu item you want.
The chosen menu item is inserted in the corresponding data field.

If you fill a data field with the "**Distance to next petrol station**" menu item, you can start a route calculation to this petrol station by touching the symbol on the display.
If you select "**Start route guidance**", route guidance to this petrol station is started.

Resetting trip data

Pressing the Reset button field for at least 1 second resets the trip data for the "**Total trip data**" and "**Trip data since ...**" display groups.

1. Press the **CAR** button.
2. Set the display to be reset by selecting the symbols ◁ and ▷.
3. Select Reset for at least 1 second.
   The trip data in the corresponding display is reset.

ParkAssist

ParkAssist indicates the distance between the vehicle and an object visually and acoustically for the driver when parking and manoeuvring.
The visual parking aid of ParkAssist is shown on the PCM display. Obstacles located in front of and behind the vehicle are indicated using different coloured fields. These fields show the contour of obstacles as well as their distance from the vehicle.

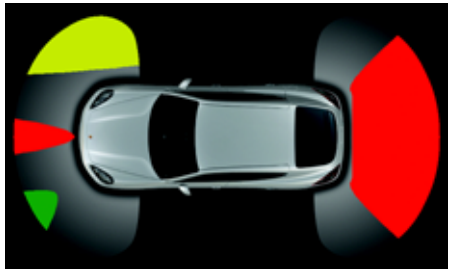
ParkAssist is activated automatically when the ignition is turned on up to a speed of approx. 15 km/h (approx. 9.5 mph).

To find out more, please refer also to the corresponding chapter in the owner's manual.

WARNING!

Accident hazard. Even with ParkAssist, responsibility for parking and for assessing obstacles lies with the driver.
A continuous tone sounds when there is a risk of collision.

- ▷ Make sure that there are no people, animals or obstacles within the manoeuvring area.
- ▷ If the continuous tone sounds, do not move the vehicle any closer to an obstacle.



The following coloured fields are used to show obstacles and their distance from the vehicle:

Field colour	Distance **in front of** the vehicle	Distance **behind** the vehicle
green	< 120 cm	< 180 cm
yellow	< 80 cm	< 80 cm
red	< 40 cm	< 45 cm
red with continuous tone	< 30 cm	< 35 cm

If ParkAssist detects a trailer, no distance information is displayed for the rear of the vehicle.

Deactivating ParkAssist

ParkAssist can be deactivated using the **A** button in the roof control console. The indicator light in the button is lit when ParkAssist is deactivated. In this case there is **no** automatic display on the PCM. Manual activation of the display is not possible either. To find out more, please refer also to the section "Switching the display on manually" on page 115.

▷ Press the **A** button to deactivate or reactivate ParkAssist.

Switching the ParkAssist display on/off

Switching the automatic display on/off

If the function is activated, the visual parking aid is shown on the PCM under the following conditions:

– when reverse gear is engaged,
– if a roll backwards is detected,
– if the distance at the front is less than 80 cm.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**" > "**SET parking**".
4. Select "**ParkAssist**" to activate (☑) or deactivate (☐) the function.

Switching the display on manually

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**ParkAssist**".
   The visual parking aid is shown on the PCM display.

ⓘ When the display is active, you can switch immediately to the "**SET parking**" menu by pressing the **OPTION** button.

Closing the ParkAssist display

The display is closed again as soon as you:

– disengage reverse gear (after 30 seconds or a speed of > 15 km/h (approx. 9.5 mph)),
– operate the electric parking brake,
– move the Porsche Doppelkupplung (PDK) gear selector into the **P** position,
– press one of the main menu buttons or
– press the Back button ↩.

ⓘ In the two last cases you can press the **CAR** button to return to the display.

Rear view camera

The rear view camera serves to monitor the area behind the vehicle during parking manoeuvres.
The image from the rear view camera is shown on the PCM display.
You have the option of displaying grid lines in the rear view camera image. These grid lines change according to the current position of the front wheels. They therefore show you where the current steering wheel turn will bring you.

The TV sound is suppressed while the image from the rear view camera is shown on the display. Audio source (FM, AM, CD/DVD, AUX and AUX BT) sound output continues uninterrupted.
There is no rear view camera display when the parking brake is activated.

Voice control is not available while the image is displayed.

Always keep the rear view camera free from dirt, ice and snow, as these can have an adverse effect on the camera image.

WARNING!

Injury hazard. The rear view camera only serves to assist the driver. It does not replace looking over your shoulder.
The display of objects captured by the rear view camera is distorted.
The camera view does not cover the complete area behind the vehicle.

▷ Continue to pay attention to the complete area behind the vehicle.

Switching the rear view camera display on/off

Switching automatic rear view camera display on/off

If the function is activated, the rear view camera image appears on the PCM display automatically when reverse gear is engaged or when the rolling back of the vehicle is detected.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET parking**".
4. Select "**Rear view camera**" to activate (☑) or deactivate (☐) the function.

Switching the rear view camera display on manually

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET parking**"
   > "**Show RVC image**".
   The image is shown on the PCM display.

Closing the rear view camera display

The rear view camera display is closed again as soon as you:

- disengage reverse gear (after 30 seconds or a speed of > 15 km/h (approx. 9.5 mph)),
- press one of the main menu buttons,
- press the Back button ,
- operate the electric parking brake or
- move the Porsche Doppelkupplung (PDK) gear selector into the **P** position.

Switching grid lines for the rear view camera on/off

No grid lines are displayed in the following situations:
- manual activation of the rear view camera display,
- driving forwards,
- open tailgate or
- trailer detected.

If your system is not calibrated or there is a steering angle sensor error, please visit a Porsche workshop.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**" > "**SET parking**".
4. Select "**RVC grid lines**" to activate ( ) or deactivate ( ) the function.

Parking with the rear view camera display

1. Engage reverse gear.
2. Turn the steering wheel so that the grid lines guide you into the parking space as accurately as possible.
3. Drive backwards carefully until the edges of the blue parking aid are parallel to the parking space.
4. Turn the steering wheel to straighten up while the vehicle is stationary. Drive until the end of the lower edge of the blue parking aid is positioned at the end of the parking space.

If the ground is uneven, the display of the grid lines may differ from the actual lane.

WARNING!

Accident hazard. If the grid lines touch or intersect obstacles, there is a risk of collision.

▷ Make sure that there are no people, animals or obstacles within the manoeuvring area.

Accident hazard. If the ground is uneven, the road is slippery or the vehicle is on an incline (e.g. curb, hill) the actual lane may differ from the precalculated grid lines.

▷ Continue to pay attention to the complete area behind the vehicle.

Picture settings for the rear view camera

Setting the Brightness

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**" > "**SET parking**" > "**RVC picture param.**" > "**Brightness**".

4. Make the setting you want by selecting the two symbols and or by turning the right rotary knob .
5. If the rear view camera is automatically activated, select "**Back to RVC**" to cancel the picture configuration and return to the camera image.

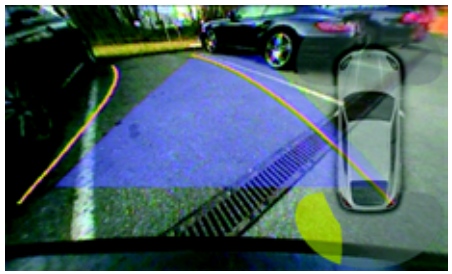
Setting the Contrast

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET parking**"
   > "**RVC picture param.**"
   > "**Contrast**".
4. Make the setting you want by selecting the two symbols and or by turning the right rotary knob .
5. If the rear view camera is automatically activated, select "**Back to RVC**" to cancel the picture configuration and return to the camera image.

Setting the Colour

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET parking**"
   > "**RVC picture param.**"
   > "**Colour**".
4. Make the setting you want by selecting the two symbols and or by turning the right rotary knob .
5. If the rear view camera is automatically activated, select "**Back to RVC**" to cancel the picture configuration and return to the camera image.

When the display is active, you can switch immediately to the "**SET parking**" menu by pressing the **OPTION** button.



Combining ParkAssist and the rear view camera display

You can combine the ParkAssist and rear view camera display. In this case you can show and hide ParkAssist by touching the vehicle on the display.

ParkAssist is shown on either the left or right edge of the screen depending on the steering angle.

Logbook

The logbook automatically records all the trips made by the vehicle and stores them together with a variety of relevant information. This includes:

- the type of use (business trip, work trip or private trip),
- the date and time,
- the start address,
- the destination address,
- the distance as well as
- the odometer reading at the start and destination locations.

Recording of a trip is started and ended automatically when the logbook is activated. It begins as soon as the vehicle key is inserted.
When the vehicle key is removed, recording stops and the information is stored.
If a distance of less than 100 metres (approx. 330 feet) is driven, the route is not recorded and is added to the next trip.

The trips are recorded even if the PCM has been switched off with the left rotary knob.

The logbook can record and store up to 1,500 trips. The stored data can be transferred to a Bluetooth device or a USB device.

You can view and edit the logbook data on a PC using the supplied software.

The logbook must be activated before it can be used.

Activating/deactivating the logbook

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**".
4. Select "**Logbook active**" to activate (☑) or deactivate (☐) the function.

Activating/deactivating the logbook reminder

If you have activated the "**Reminder**" function, the logbook menu appears for several seconds each time the PCM starts up.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**".
4. Select "**Reminder**" to activate (☑) or deactivate (☐) the function.

Setting the standard trip for the logbook

The "**Standard trip**" function allows you to choose the trip type to be set as standard at the start of a journey.
The following trip types are available:

- "**Business trip**",
- "**Work trip**",
- "**Private trip**" as well as
- "**Last trip**".
  The "**Last trip**" trip type is only available if at least one trip has been recorded.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Standard trip**".
4. Select the trip type you want.

Editing data from the current trip

You can change the different pieces of data registered by the logbook during recording of a trip as many times as you want during the trip.

Changing the trip type

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**".
4. Select the trip type you want.

Changing the driver

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Driver**".
   A list of all the drivers created so far is opened.
   If a driver has been assigned a specific key, this is also shown in the list.
4. Insert the driver you want by selecting him or her.

Creating a new driver

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Driver**"
   "**New driver**".
   The input menu is opened.
4. Enter the name of the new driver and confirm by selecting "**OK**".

If the current trip is not a **Business trip**, but rather a **Work trip** or **Private trip**, the only fields available to you are "**Driver**" and "**Remarks**".

Changing the trip destination

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Trip destination**".
   A list of all the destinations created so far is opened.
4. Insert the trip destination you want by selecting it.

Creating a new trip destination

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Trip destination**"
   > "**New trip destination**".
   The input menu is opened.
4. Enter the new trip destination you want and confirm by selecting "**OK**".

Changing the trip purpose

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Trip purpose**".
   A list of the trip purposes already created is opened.
4. Insert the trip purpose you want by selecting it.

Creating a new trip purpose

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Trip purpose**"
   > "**New trip purpose**".
   The input menu is opened.
4. Enter the new trip purpose you want and confirm by selecting "**OK**".

Changing the contact person

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Contact person**".
   A list of the contact persons already created is opened.
4. Insert the contact person you want by selecting him or her.

Creating a new contact person

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Contact person**"
   > "**New contact person**".
   The input menu is opened.
4. Enter the new contact person and confirm by selecting "**OK**".

Changing the remarks

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Current trip**"
   > "**Edit trip**"
   > "**Remarks**".
   The input menu is opened.
4. Enter the text you want and confirm by selecting "**OK**".

Continuing recording from the last trip

If a trip has been completed with the logbook activated, the previous trip can be continued the next time a trip is started.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Continue trip**".
   The data from the last recorded trip is displayed.
   You are then asked once more whether you want to continue the last trip.
4. Confirm the question by selecting "**Yes**".
   Recording of the last trip is continued.

Storing a refuelling stop

If you want to store a refuelling stop in the trip currently being recorded, you can do so by selecting "**Refuelling stop**".

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Refuelling stop**".
   The question "**Store refuelling stop?**" appears.
4. Confirm the question by selecting "**Yes**".
   The refuelling stop is stored.

Viewing the list of stored trips

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Trip list**".
   The trip list is displayed.
   If a recording is currently in progress, it is displayed at the top of the list.
4. Select a trip to open a detailed view of it.
   You can scroll between the detailed views for the individual trips by selecting the symbols ◀ and ▶.

You can switch between scrolling in the detailed view and scrolling in the list by pressing the right rotary knob.

Managing the logbook lists

In addition to the lists of stored trips, lists for the **Driver**, the **Trip purpose**, the **Trip destination** and the **Contact person** are also created in the logbook.

Creating a new list entry

You can create a new entry by selecting the first entry in any list (e.g. "**New driver**").

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Manage lists**".
4. Select the list you want.
5. Select the top list entry.
   The input menu is opened.
6. Enter the name you want and confirm by selecting "**OK**".
   The entry is then created in the list.

Renaming a list entry

You can rename the individual list entries as many times as you want.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Manage lists**".
4. Select the list you want.
5. Select the list entry you want.
6. Select "**Rename**".
   The input menu is opened.
7. Enter the name you want and confirm by selecting "**OK**".
   The name is now changed.

Deleting a list entry

You can delete each individual entry in a list.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Manage lists**".
4. Select the list you want.
5. Select the list entry you want.
6. Select "**Delete**".
7. Answer the question displayed by selecting "**Yes**".
   The list entry is deleted.

Assigning the current key to a driver in the driver list

You can assign the key currently being used to a driver in the list.
If this key is used again when the logbook is activated, the logbook "recognises" the driver and automatically records his or her name.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Manage lists**".
4. Select the "**Driver**" list.
5. Select the driver you want.
6. Select "**Assign key**".
   If the key is already assigned to another driver, you are informed of this at this point. The existing key assignment is discarded once you confirm this prompt.
7. Confirm the prompt by selecting "**Yes**".
   The key is assigned to the driver. The assignment is now also shown in the list.

Deleting an existing key assignment

You can delete an existing key assignment again.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Manage lists**".
4. Select the "**Driver**" list.
5. Select the driver you want.
6. Select "**Delete key**".
7. Confirm the prompt by selecting "**Yes**".
   The assignment is deleted again.

Deleting trips

You can either delete the trips already transferred from your logbook or all recorded trips.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**SET logbook**"
   > "**Delete trips**".

Deleting trips already transferred

4. Select "**Transferred trips**".
5. Confirm by selecting "**Yes**".
   All trips already transferred are deleted.

Deleting all trips

5. Select "**All trips**".
6. Confirm by selecting "**Yes**".
   All trips are deleted.

Transferring the logbook data

Depending on how your PCM is equipped, you can transfer stored data via either the *Bluetooth*® interface or the USB interface. The data is not deleted during this process.

i We recommend that you transfer and back up the data at regular intervals.

i The name of the file where the transferred logbook data is stored is made up of the abbreviation "**FB**", the date (YYMMDD) and the extension ".bin".
Please note that multiple logbooks transferred on the same day will overwrite each other without notice.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Transfer data**".

Transferring data via the USB interface

i You can only access the "**To USB**" transmission mode if there is a USB memory stick attached to the USB interface. To find out more about the permissible USB memory media, please refer to the section "Notes on the media supported" on page 43.

4. Select "**To USB**".
   The data is transferred, provided there is a storage medium without write protection and with sufficient free memory connected.
   Otherwise you are notified of the problem with the data transfer by means of an error message.

Transferring data via the Bluetooth interface

i Please note that the connection between both devices must be activated for data transfer using *Bluetooth*®. To find out how to activate this connection, please refer to the section "Switching Bluetooth® on" on page 125.

5. Select "**To Bluetooth**".
6. A list of all known devices that may be used for a transfer of logbook data is displayed. If the device you want is not there, you can search for further devices. To do this, press "**New device**" (see also the section "Adding a new Bluetooth® device" on page 125).
   As soon as the search is complete, a list containing the devices found is displayed.
7. Select the device you want in the list.
   The data is transferred.

i You may first need to authorise a new device. To find out more, please refer to the section "Adding a new Bluetooth® device" on page 125.

Bluetooth® settings

Calling up *Bluetooth*® settings

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Logbook**"
   > "**Transfer data**"
   > "**Bluetooth settings**".

Switching *Bluetooth*® on

▷ Select "**Switch on Bluetooth**" in the *Bluetooth*® settings.

Switching *Bluetooth*® off

▷ Select "**Switch off Bluetooth**" in the *Bluetooth*® settings.

Adding a new *Bluetooth*® device

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible".

1. Select "**New data device**" in the *Bluetooth*® settings.
   A search is started and a list of the devices found is displayed.
2. Choose the device you want by selecting it in the list.
   A *Bluetooth*® code is displayed that you must enter in the corresponding *Bluetooth*® device. Once you have entered the code, successful authorisation of the device is shown on the display.

Establishing a connection from an external *Bluetooth*® device

To find out more, please refer to the section "Establishing a connection from an external Bluetooth® device" on page 69.

Setting visibility

To find out more, please refer to the section "Setting visibility" on page 69.

Authorised *Bluetooth*® devices

This function allows you to display a list of the *Bluetooth*® devices currently authorised to connect with your PCM. The list contains all authorised data devices .

Displaying authorised *Bluetooth*® devices

▷ Select "**List of data devices**" in the *Bluetooth*® settings.

Connecting an authorised *Bluetooth*® device with the PCM

Data devices cannot be connected from the list of devices; they can only be connected by calling the appropriate application, for example when transferring the logbook.

Renaming an authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Rename**".
   The input menu is opened.
4. Enter the name you want and confirm by selecting "**OK**".
   The name of the device is now changed in the PCM.

Deleting an authorised *Bluetooth*® device from the list

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Delete**".
4. Confirm the prompt that appears by selecting "**Yes**".

Deleting the list of authorised *Bluetooth*® devices

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Delete**".
4. Select "**Delete list**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Displaying details for the authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Device details**".
   The following information is displayed:
   – the device name,
   – the *Bluetooth*® address as well as
   – the supported services.

The Sport display

The Sport display is part of the Sport Chrono Package Plus that also includes a stopwatch and buttons for dynamic driving settings (Sport mode). The combination of the stopwatch and the PCM allows lap data to be recorded and evaluated.

The time is recorded by the stopwatch operated using the CHRONO on-board computer menu in the instrument cluster.
Refer also to the section "**Chrono**" in the vehicle operating manual.

The graphical display as well as the storage and evaluation of the recorded lap times and the associated lap lengths is performed by the PCM.

The following information can be recorded and displayed for each driven lap:

- the route,
- the fastest lap time and in comparison the current lap time,
- a comparison of the current lap and the fastest lap so far,
- the portion of the lap already covered and
- the distance or number of laps possible with the remaining fuel.

The functions of the Sport display can be used for any route (e.g. journey to work), not just laps.

Any recorded lap/distance can be defined as a reference lap. This then forms the basis for comparing further laps/routes and recorded times. Laps/distances whose length differs by more than 15 percent (longer or shorter) from the reference distance will be marked in the evaluation.

Starting recording

As soon as the stopwatch in the CHRONO on-board computer menu is started, recording begins along with recording of the route, which is shown on the display.

You can see the following in the display:

- a white line representing the reference lap,
- a destination flag marking the start of recording,
- a yellow line representing your current lap as well as
- an orange dot representing the position of the vehicle on the route.

The route is only recorded when the display of "**Additional data**" is activated in the "**SET sport display**". To find out more, please refer to the section "Setting the display of additional data" on page 132.

The first lap of the recording is used as a reference lap if none has already been loaded. This is needed to display the circle diagram in the lap details as well as to display the remaining laps left in the tank.

A maximum of 63 laps can be stored for each recording.

Lap information

The route is displayed when the Sport display is called up. You can then switch between the route and the lap details by selecting the symbols ◁ and ▷ or by turning the rotary knob ❨◉❩. This information consists of:

- the time of the fastest lap,
- the current lap time,
- information on the remaining tank range (in remaining laps and as a distance) as well as
- the remaining memory available.

The left half of the display shows a circle diagram. It indicates the distance covered in relation to a complete lap.
The circle diagram assumes different colours depending on whether the current lap is faster, as fast as or slower than the previous fastest lap:

- green - current lap is faster,
- yellow - current lap is as fast,
- red - current lap is slower.

The number in the centre of the coloured circle indicates the current lap.

If you have not loaded any reference laps, the first lap recorded will be used as a reference lap.
Neither the remaining number of laps nor the fastest lap time is displayed while the first lap is being recorded. The circle diagram is not filled yet either.

Available memory is full

If the available memory is full, a message to this effect appears in the display. The lap details will continue to be displayed, however the lap during which the message appears as well as any further laps will no longer be recorded.
A maximum of 8 hours can be recorded.

Stopping recording

Selecting "**Stop**" in the on-board computer menu stops the stopwatch and therefore the recording in progress.
The recorded data is stored.

Continuing recording

As soon as the stopwatch is restarted in the on-board computer menu with "**Res.**", the Sport display appears again.
This is only possible, however, if you do not reset the stopwatch in the on-board computer menu beforehand.

Ending a lap/starting a new lap

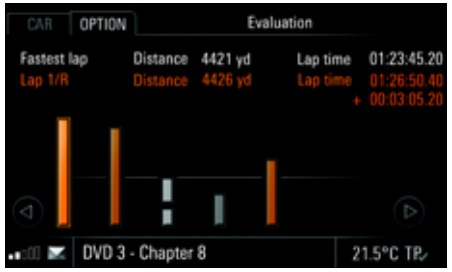
Selecting "**Round**" in the on-board computer menu ends one lap and starts a new lap.

Timing the interval

Selecting "**Int.**" in the on-board computer menu and then pressing the stalk forwards displays the interval for several seconds.

Evaluating a recording

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened. Reference laps are indicated in the list using the R symbol.
4. Select the recording you want.
5. Select "**Evaluation**".



The individual laps are shown side-by-side as bars in the evaluation that appears. The height of these bars represents the corresponding lap time. The higher the bar, the longer the lap time.

You can scroll forward and backward in the evaluation by:

▷ Touching the symbols ◁ and ▷ on the display.

- **or** -

▷ Turning the right rotary knob.

Reference lap

If you did not define a reference lap when recording started, the first lap is treated as the reference lap and is shown as "**Lap 1/R**".

Fastest lap

The laps are generally displayed in orange. The only exception to this is the fastest lap, which is shown in white.

Interrupted lap

If a lap is shown with a broken bar, this means that either the driving was interrupted or the vehicle was stationary for a time. Parking periods result when the ignition is switched off.

Implausible (divergent) laps are shown in grey.

Implausible laps are shown in grey. Laps are regarded as implausible if their distance deviates more than 15% from the distance of the reference lap.

Renaming a recording

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened. Reference laps are indicated in the list using the symbol.
4. Select the recording you want.
5. Select "**Rename**".
   The input menu is opened.
6. Enter the name you want and confirm by selecting "**OK**".
   The name is now changed.

Deleting recordings

You cannot delete a recording while the "**Res.**" function can be selected in the on-board computer menu. In order to be able to delete a recording, you must first reset the stopwatch in the on-board computer menu.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened. Reference laps are indicated in the list using the symbol.

Deleting recordings individually

4. Select the recording you want.
5. Select "**Delete**".
6. Confirm the prompt by selecting "**Yes**".
   The recording is deleted.

Deleting all recordings

4 Select a recording.
5. Select "**Delete**".
   > "**Delete list**".
6. Confirm the prompt by selecting "**Delete all**".

Deleting a lap

You cannot delete the last lap using the "**Delete lap**" menu item while the "**Res.**" function can still be selected in the on-board computer menu. In this case, the stopwatch in the on-board computer must be reset and the lap deleted afterwards. To find out more, please refer to the section "Deleting recordings" on page 130.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened.
4. Select the recording you want.
5. Select "**Evaluation**".
6. Select the lap you want from the evaluation.
7. Select "**Delete lap**".
   The lap is deleted from the recording.

Storing a lap as the reference lap

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened.
4. Select the recording you want.
5. Select "**Evaluation**".
6. Select the lap you want from the evaluation.
7. Select "**Store reference**".
   The lap is stored as the reference lap.

Defining the reference lap

If no reference lap is defined in advance, the first lap in a recording is automatically used as the reference lap.
Furthermore, any lap already recorded can be defined as the reference lap for the next recording.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened. The reference laps are indicated in the list using the symbol.
4. Select the reference lap you want.
5. Select "**Set reference**".
   The chosen reference lap is used for future recordings.

Resetting the defined reference lap

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Reset reference**".
   The previously defined reference lap is reset. If no new reference lap is defined, the first lap is used again as the reference lap for any further recordings.

Renaming the reference lap

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened.
4. Select the reference lap you want.
5. Select "**Rename**".
   The input menu is opened.
6. Enter the name you want and confirm by selecting "**OK**".
   The name of the reference lap is now changed.

Deleting the reference lap

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Sport display**"
   > "**Recordings**".
   A list of the stored recordings is opened.
4. Select the reference lap you want.
5. Select "**Delete**".
6. Confirm by selecting "**Yes**".
   The recording is now deleted.

Deleting all laps

This function can be used to delete all recordings and reference laps.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > Select "**SET sport display**".
4. "**Delete trips**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Setting the display of additional data

1. Press the **CAR** button.
2. Select **OPTION**.
3. Select "**SET CAR**"
   > "**SET sport display**".
4. Select "**Additional data**" to activate (☑) or deactivate (☐) the function.

Transferring data

i We recommend that you transfer and back up the data at regular intervals.

1. Press the **CAR** button.
2. Select **OPTION**.
3. Select "**Sport display**"
   > "**Transfer data**".
   A list of the stored recordings is opened.
4. Select the recording you want or the "**All**" list entry.

Transferring data via the USB interface

i You can only access the "**To USB**" transmission mode if there is a USB memory stick attached to the USB interface. To find out more about the permissible USB memory media, please refer to the section "Notes on the media supported" on page 43.
A directory called "**SportChrono**" is created on the storage medium during data transfer.

5. Select "**To USB**".
   The data is transferred, provided there is a storage medium without write protection and with sufficient free memory connected. Otherwise you are notified of the problem with the data transfer by means of an error message.

Transferring data via the *Bluetooth*® interface

i Please note that the connection between both devices must be activated for data transfer using *Bluetooth*®. To find out how to activate this connection, please refer to the section "Switching Bluetooth® on" on page 133.

5. Select "**To Bluetooth**".
6. A list of all known devices that may be used for a transfer of data is displayed. If the device you want is not there, you can search for further devices. To do this, press "**New device**" (see also the section "Adding a new Bluetooth® device" on page 133).
   As soon as the search is complete, a list containing the devices found is displayed.
7. Select the device you want.

i You may first need to authorise a new device. To find out more, please refer to the section "Adding a new Bluetooth® device" on page 133.

Bluetooth® settings

Calling up *Bluetooth*® settings

1. Press the **CAR** button.
2. Select **OPTION**.
3. Select "**Sport display**"
   > "**Transfer data**"
   > "**Bluetooth settings**".

Switching *Bluetooth*® on

▷ Select "**Switch on Bluetooth**" in the *Bluetooth*® settings.

Switching *Bluetooth*® off

▷ Select "**Switch off Bluetooth**" in the *Bluetooth*® settings.

Adding a new *Bluetooth*® device

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible".

1. Select "**New data device**" in the *Bluetooth*® settings.
   A search is started and a list of the devices found is displayed.
2. Choose the device you want by selecting it in the list.
   A *Bluetooth*® code is displayed that you must enter in the corresponding *Bluetooth*® device. Once you have entered the code, successful authorisation of the device is shown on the display.

Establishing a connection from an external *Bluetooth*® device

To find out more, please refer to the section "Establishing a connection from an external Bluetooth® device" on page 69.

Setting visibility

To find out more, please refer to the section "Setting visibility" on page 69.

Authorised *Bluetooth*® devices

This function allows you to display a list of the *Bluetooth*® devices currently authorised to connect with your PCM. The list contains all authorised data devices .

Displaying authorised *Bluetooth*® devices

▷ Select "**List of data devices**" in the *Bluetooth*® settings.

Connecting an authorised *Bluetooth*® device with the PCM

Data devices cannot be connected from the list of devices; they can only be connected by calling the appropriate application, for example when transferring the data from the Sport display.

Renaming an authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.

3. Select "**Rename**".
   The input menu is opened.
4. Enter the name you want and confirm by selecting "**OK**".
   The name of the device is now changed in the PCM.

Deleting an authorised *Bluetooth*® device from the list

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Delete**".
4. Confirm the prompt that appears by selecting "**Yes**".

Deleting the list of authorised *Bluetooth*® devices

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Delete**".
4. Select "**Delete list**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Displaying details for the authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Device details**".
   The following information is displayed:
   – the device name,
   – the *Bluetooth*® address as well as
   – the supported services.

Extended memory

In the PCM menu you have the option to store various settings for up to three of your vehicle's ignition keys and two of your vehicle's memory buttons. Both driver-related settings from the instrument cluster as well as PCM settings are stored in this process.

The following PCM settings are stored:

- the personal data fields of the trip data in the **CAR** main menu,
- the stations stored on the station buttons of the various preset memories in radio mode,
- the sound settings for the various audio sources,
- the volume settings for the various audio sources,
- settings for the map view as well as
- the settings for voice control.

The vehicle-dependent settings are described in the following sections.

To find out more about the extended memory, please refer also to the corresponding chapter in the owner's manual.

The range of vehicle settings available in the PCM depends on the vehicle type and the equipment installed.

Setting light options

Setting the daytime running lights

If the "**Daytime Run. Lights**" function is active (☑), the lights will always be switched on when the engine is running. This applies regardless of the light switch setting.
The illumination of the instruments and switches is still switched on and off via the light switch, regardless of the "**Daytime Run. Lights**" setting.

This function is only available in countries where daytime running lights are not mandatory.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Exterior lights**".
4. Select "**Daytime Run. Lights**" to activate (☑) or deactivate (☐) the function.

Setting the fade-out time for the exterior lights of the vehicle

You can set a fade-out time of between 10 and 120 seconds for your vehicle's exterior lights.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Exterior lights**"
   > "**Fade-out time**".
4. Set the time period you want by touching the two symbols △ and ▽ or by turning the right rotary knob ❨◉❩.
   The setting is immediately applied.

The "**Fade-out time**" setting also changes the illumination duration when unlocking the vehicle.
To find out more about this, please refer to the chapter "Welcome home function" in the owner's manual.

Setting the alignment for the low beam

You can set the alignment of the low beam headlights for driving on the right or left.
You can only change this function when the vehicle is stationary.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Exterior lights**"
   > "**Low beams**".
4. Select "**Standard**" to adapt the headlights to the normal direction of traffic in the delivery country.
   - **or** -
4 Select "**Inverted**" to adapt the headlights to the other direction of traffic.

Setting the orientation light

The orientation lighting include the lights in the area of the roof console, the inner door handles and the storage compartments.
You can set the intensity of the orientation light on a scale from 0 to 10.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Interior lights**"
   > "**Orientation light**".
4. Set the intensity you want by touching the two symbols and or by turning the right rotary knob .
   The setting is immediately applied.

Setting the fade-out time for the interior lights of the vehicle

You can set a fade-out time of between 0 and 300 seconds for your vehicle's interior lights.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Interior lights**"
   > "**Fade-out time**".
4. Set the time period you want by touching the two symbols and or by turning the right rotary knob .
   The setting is immediately applied.

Setting wiper options

You can choose whether you want to switch on your vehicle's windscreen wipers yourself or whether they should be controlled automatically.

Setting activation of the rain sensor

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Wiper**"
   > "**Rain sensor**".
4. Select "**Automatic**" if the rain sensor is to be permanently active as soon as the wiper switch is set to intermittent mode.
   - **or** -
4 Select "**Manual**" if the rain sensor is to be started manually.

Setting activation of the rear wiper

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Wiper**"
   > "**Rear wiper**".
4. Select "**Automatic**" if the rear wiper is to be switched on automatically. This happens as soon as reverse gear is engaged and the front wiper has been active during the previous 40 seconds.
   - **or** -
4 Select "**Manual**" if the rear wiper is to be started manually.

Setting reversing options

Setting lowering of the right exterior mirror

You can set whether the right exterior mirror is to be lowered automatically and the direction indicator is to be operated when reverse gear is engaged.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Reversing options**".
4. Select "**Lower mirror**" to activate (☑) or deactivate (☐) the function.

Setting opening of the rear blind

You can set whether the rear blind is to be opened automatically when reverse gear is engaged.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Light & visibility**"
   > "**Reversing options**".
4. Select "**Open rear blind**" to activate (☑) or deactivate (☐) the function.

Setting comfort options

Setting automatic folding in the exterior mirrors

You can set whether the exterior mirrors are to be folded in automatically when the vehicle is switched off.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Locking system**".
4. Select "**Fold in mirror**" to activate (☑) or deactivate (☐) the function.

Activating the entry aid

If this function is activated, the steering wheel and driver's seat are retracted automatically to make it easier to get in and out of the vehicle.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Locking system**".
4. Select "**Entry aid**" to activate (☑) or deactivate (☐) the function.

Choosing the options for setting the air conditioning

Setting the air flow strength

You can choose whether the air flow for the air conditioning is to be set to "**Gentle**", "**Normal**" or "**Strong**".

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Air conditioning**"
   > "**Air flow**".
4. Select the setting you want.

Setting use of the upper ventilation zone

If this function is activated, the upper ventilation zone is also taken into account for the automatic air conditioning system.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Air conditioning**".
4. Select "**Ventilation zone**" to activate (☑) or deactivate (☐) the function.

Setting adaptation of the central vents

If this function is activated, the output temperature at both central vents in the dashboard is adapted.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Air conditioning**".
4. Select "**Center cooler**" to activate (☑) or deactivate (☐) the function.

Setting automatic air circulation

If this function is activated, the fresh air supply is shut off and the air circulation function is activated if the air quality is poor.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET CAR**"
   > "**Vehicle functions**"
   > "**Air conditioning**".
4. Select "**Auto recir. air**" to activate (☑) or deactivate (☐) the function.

NAVI

General operation 140
Navigation safety notice 141
Setting the volume of the navigation announcement 141
Repeating a navigation announcement 141
Entering an address 141
Entering the country 142
Entering the town/postal code 142
Entering the street/number 142
Entering the junction 143
Starting/stopping route guidance 143
Starting route guidance 143
Stopping route guidance 143
Activating alternative routes for route guidance 143
Starting route guidance with route alternatives activated 143
Displaying information for traffic messages on the route 143
List of previous destinations 144
Entering an address for a new route guidance session from the list 145
Displaying the location of a destination 145
Editing the address of a destination 145
Deleting 145
Storing a destination in the personal destination memory 145
Calling the destination 146
Personal destination memory 146
Storing an address for personal destinations 146
Entering an address for route guidance from the list 147
Displaying the location of a destination 147
Editing the address of a destination 147
Adding destinations 147
Entering/editing a telephone number for a destination in the destination memory 148
Editing the destination name 148
Calling the destination 148
Deleting a destination 148
Bluetooth® settings 149
Points of interest 151
Searching for points of interest by category 151
Searching for points of interest by name 152
Searching for points of interest by telephone number 152
Searching for points of interest in the map view 152
Starting navigation to the point of interest 153
Changing options for route guidance 153
Setting a detour 153
Cancelling a detour 154
Setting a fast/quick route 154
Setting dynamic route planning (TMC) 154
Avoiding a stretch of road 155
Stopovers (tour) 155
Entering stopovers 155
Via destinations 156
Deleting stopovers 157
Storing stopovers in the personal destination memory 157
Reorganising the stopovers 157
Destination input using geographical coordinates 158
Destination input using the map 158
Storing 158
Storing a destination 158
Storing a position 159
Off-road navigation 159
Activating/deactivating off-road navigation 160
Safety notice for off-road navigation 160
Landmark navigation 160
Recording a trip section (trace) 161
Tracing a route 163
Reloading data 164
Changing the navigation database 164

General operation

The PCM navigation system utilises visual and audible driving recommendations to help you reach your destination.
The vehicle's position is determined with the aid of a GPS antenna and a receiver in the navigation module.
The vehicle position is calculated by evaluating and processing additional vehicle signals (e.g. speed) in the navigation computer. This enables the system to automatically correct signal changes due to wheel changes (altered tyre diameter), temperature or air pressure variations.

The PCM features a hard drive where the digital map data is stored.
If an area on this hard drive is damaged or corrupt, the PCM can no longer access the data on it.
A message to this effect will be displayed.

During an active telephone call, the driving recommendations are suppressed.

WARNING!

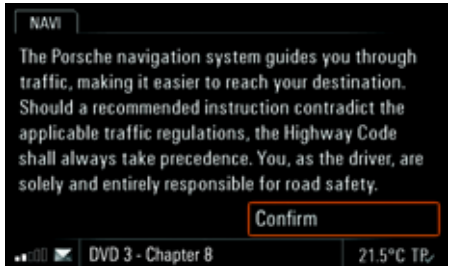
Accident hazard. The navigation system is only intended as an aid to the driver and makes recommendations on the routes to take. This does not release you from full responsibility for observing road safety, traffic conditions, legal road traffic regulations and any other relevant regulations while driving your vehicle.

As the driver, **you** must assess the traffic situation. **You** have sole responsibility for road safety while driving your car.

▷ Continue to pay attention to the traffic situation.

To ensure you make the most effective use of your PCM navigation system, please observe the following points:

– GPS reception can be impaired under trees or between high buildings. No GPS reception is possible in multi-storey car parks, tunnels and the like.
– The GPS antenna must not be covered by metallic or damp objects.
– After the vehicle's on-board voltage has been interrupted (e.g. for changing the vehicle battery), it can take up to 15 minutes or more depending on the reception conditions for the GPS to re-initialise.
– After transporting the vehicle, for example by ferry, it can take several minutes depending on the reception conditions after switching on until the current GPS position is established.
– Without GPS reception, the system calculates the current position using the vehicle signals and therefore remains operational in situations where the reception is temporarily poor.
– High wheel slip (spin on snow) can result in an incorrect position being given for a short time.
– After initial start-up of the navigation system, the fine calibration requires approx. 50 km (30 miles).
– After a tyre change (e.g. summer/winter tyres), fine calibration will only be reached after up to 50 km (30 miles).
– During fine calibration, full location accuracy is not yet reached.



Navigation safety notice

You are shown a message that the navigation system is only intended as an **aid** to the driver as soon as you:

– have switched on the PCM and activated route guidance

or

– have switched on the PCM and pressed the **NAVI** button or **MAP** button for the first time.

▷ Close the safety notice by selecting "**Confirm**".

Setting the volume of the navigation announcement

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**" > "**Guidance volume**".
4. Make the setting you want by selecting the two symbols ▲ and ▽.

Repeating a navigation announcement

▷ After you have listened to the navigation announcement, press the **MAP** button twice in succession.

The navigation announcement is repeated.

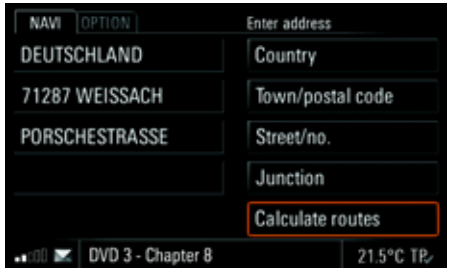
While the navigation announcement is being repeated, you can adjust the volume of the navigation announcement by turning the left rotary knob.
The changed volume is set and stored.

Entering an address

After you select "**Enter address**", the address of the last destination is displayed in the information area.
If route guidance is active, the address of the current destination is displayed.

Observe the following points for destination input:

– Destination input is only possible using the data available on the hard drive of the device.
There may be restrictions regarding street names, street numbers, city centres and points of interest. This applies particularly if the destination is located in a partly digitised area (map data for this area is inaccurate or incomplete).
– We are constantly working to collect further data and update available data. Information regarding new or updated software is available from your Porsche partner.



Entering the country

After you first select address entry, only the "**Country**" menu item can be selected. You must enter a country before you can enter the remaining address data.

Selecting a country in the list

1. Press the **NAVI** button.
2. Select "**Enter address**"
   > "**Country**".
   A list of the countries for which navigation data is stored on the hard drive is opened.
3. Select the country you want in the list.

Selecting a country in the map

1. Press the **NAVI** button.
2. Select "**Enter address**"
   > "**Country**".
   A list of the countries for which navigation data is stored on the hard drive is opened.
   > Select "**Country via map**".
   A map of Europe is opened.
3. Touch the upper or lower map section depending on the country you want to choose.
   An enlarged map section containing the relevant country abbreviations is displayed.
4. Select the country you want in the map.

Entering the town/postal code

You can enter the town either by means of its name or its postal code.

1. Press the **NAVI** button.
2. Select "**Enter address**"
   > "**Town/postal code**".
   The input menu is opened.
3. Enter the town name or the postal code.
   After you enter the first letters of the town and confirm by selecting "**OK**", a list containing possible matches is opened.
4. Select the town you want in the list.
   - **or** -
4. Highlight a town in the list and select "**Details**" in the header.
   A map section containing the previously highlighted town is opened. If there are several towns with this name, you can switch between the different map views by touching the symbols ◁ and ▷ on the display.
5. Select "**OK**" to use the town displayed in the map section for route guidance.

Entering the street/number

1. Press the **NAVI** button.
2. Select "**Enter address**"
   > "**Street/no.**".
   The input menu is opened.

3. Enter the street name.
   After you enter the first letters of the street name, a list containing possible matches is opened.
4. Select the street you want in the list.

You can also enter the street number later (when route guidance is already active). If you do so, however, you must then restart route guidance.

Entering the junction

1. Press the **NAVI** button.
2. Select "**Enter address**"
   > "**Junction**".
   The input menu is opened.
3. Enter the name of the cross street.
   After you enter the first letters of the street name, a list containing possible matches is opened.
4. Select the street you want in the list.

Starting/stopping route guidance

Starting route guidance

To be able to start route guidance, you must have entered at least a country and a town.

▷ After entering the address data, select "**Start route guidance**" to start route guidance.

Stopping route guidance

▷ Select "**Stop route guidance**" in the main menu during an active route guidance session to stop route guidance.

Activating alternative routes for route guidance

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**".
4. Select "**Route alternatives**" to activate (☑) or deactivate (☐) the function.

Starting route guidance with route alternatives activated

If you have activated the route alternatives in the settings menu, the "**Start route guidance**" menu item is replaced with the "**Calculate routes**" menu item.

1. Enter an address.
2. Select "**Calculate routes**".
   The route alternatives are calculated. Any stopovers and via destinations that you have entered are also taken into account in the calculation.
   The possible alternative routes are displayed.
3. Choose the route you want for the calculation by selecting it.
4. Select "**Start route guidance**" to start the route guidance.

Displaying information for traffic messages on the route

If the "**Detour prompt**" function is activated, information is displayed for each traffic message

– that is on the current route

and

– that is at least 10 minutes before the last possible exit before the traffic jam.

i "**Detour prompt**" can only be activated if dynamic route planning is deactivated.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**".
4. Select "**Detour prompt**" to activate (☑) or deactivate (☐) the function.

A prompt must be confirmed as soon as it is displayed. The following options are available to you:

▷ Select "**Detour**".
A new route is calculated taking the relevant traffic message into account.

▷ Select "**Ignore**".
The original route guidance session is resumed. The traffic message is not taken into account.

▷ Select "**Details**".
The detailed view of the traffic message is displayed.
> Select "**Detour**" to close the detailed view and calculate a new route.
- **or** -
> Press the Back button ↩ to close the detailed view again and ignore the traffic message.

i You can also close the message or detailed view at any time by pressing any button.

List of previous destinations

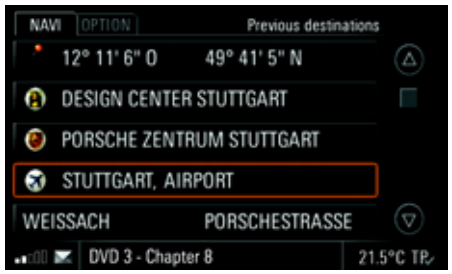
This list automatically stores the previous 100 destinations for which you started route guidance. Points of interest are indicated by symbols.

Point of interest
To find out more, please refer to the section "Points of interest" on page 151.

Geographical coordinate
To find out more, please refer to the section "Destination input using geographical coordinates" on page 158.

Point positioning
To find out more, please refer to the section "Inserting a destination from the map (point positioning)" on page 156.

You can call up, edit and store the destinations for a new route guidance session.



Entering an address for a new route guidance session from the list

1. Press the **NAVI** button.
2. Select "**Previous destinations**".
   The list of previous destinations is opened.
3. Select the destination you want.
4. Select "**Start route guidance**" to start the route guidance.

Displaying the location of a destination

1. Press the **NAVI** button.
2. Select "**Previous destinations**".
   The list of previous destinations is opened.
3. Select the destination you want.
4. Select "**Details**".
   The location of the chosen destination is shown in the map view. To find out more, please refer to the section "Map display" on page 166.
5. Select "**Start route guidance**" to start the route guidance if needed.

Editing the address of a destination

1. Press the **NAVI** button.
2. Select "**Previous destinations**".
   The list of previous destinations is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Address**".
   The address entry menu is opened.
5. Make the changes you want.

Deleting

1. Press the **NAVI** button.
2. Select "**Previous destinations**".
   The list of previous destinations is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Delete**".

Deleting a destination from the list

5. Confirm the prompt that appears by selecting "**Yes**".
   The chosen destination is deleted from the list.

Deleting the entire list

5. Select "**Delete list**"
   > "**Delete all**".
   The entire list is deleted.

Storing a destination in the personal destination memory

Storing of destinations in the list of previous destinations takes place automatically. If all the memory locations are full, the PCM automatically deletes the oldest entry from the list.
If you want to keep a destination permanently available, you can store it in your personal destination memory under a name of your choice.

1. Press the **NAVI** button.
2. Select "**Previous destinations**".
   The list of previous destinations is opened.
3. Select the destination you want.
4. Select "**Store**".
   The input menu is opened.
5. Enter the destination name you want and confirm by selecting "**OK**".
   The destination is stored in the personal destination memory.

Calling the destination

You can call individual points of interest for which there is a telephone number in the database from the list of previous destinations. This menu item is not available if there is no telephone number stored in the database for a destination or if the telephone function is not available. "**Store position**" is displayed instead.

1. Press the **NAVI** button.
2. Select "**Previous destinations**".
   The list of previous destinations is opened.
3. Select the destination you want.
4. Select "**Call**".
   The number stored in the database is dialled.

Personal destination memory

In your personal destination memory you can store 100 destination entries as well as 15 off-road navigation routes (traces) under freely defined names. The personal destination memory also contains the two personal destinations "**GO HOME**" and "**GO TO OFFICE**" that can be assigned the corresponding addresses and are always displayed at the top of the list.

Points of interest are indicated by symbols.

POI
To find out more, please refer to the section "Points of interest" on page 151.

Geo. co-ordinates
To find out more, please refer to the section "Destination input using geographical co-ordinates" on page 158.

Point positioning
To find out more, please refer to the section "Inserting a destination from the map (point positioning)" on page 156.

Stopovers (tour)
To find out more, please refer to the section "Stopovers (tour)" on page 155.

Trace
To find out more, please refer to the section "Off-road navigation" on page 159.

Landmark list
To find out more, please refer to the section "Off-road navigation" on page 159.

Storing an address for personal destinations

Here is an example of how to enter the address for the personal destination "**GO HOME**":

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select "**GO HOME**".
4. Confirm the prompt that appears with "**Yes**".

Storing an address by entering it

5. Select "**Enter address**".
6. If applicable, select "**Country**" and select the country you want in the list.
7. Select the "**Town/postal code**" and "**Street/no.**" menu items one after the other and enter the appropriate details in the input menu.
8. Select "**Store**" to store the entered address for the entry.

Inserting an address from a list

5. Select "**Previous destinations**" or "**Stored destinations**".
6. Select the address you want in the list.
   The address is accepted.

It is not possible to store a tour, a trace or a landmark list as a personal destination.

Adding an address from a POI search

5. Select "**POI**".
   For the rest of the procedure, please refer to the section "Points of interest" on page 151.

Entering an address for route guidance from the list

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Start route guidance**" to start the route guidance.

Displaying the location of a destination

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Details**".
   The location of the chosen destination is shown in the map view. To find out more, please refer to the section "Map display" on page 166.
5. Select "**Start route guidance**" to start the route guidance if needed.

Editing the address of a destination

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Address**".
   The address entry menu is opened.
5. Make the changes you want.
6. Select "**Accept**".
7. The old data is overwritten.

Adding destinations

Traces cannot be added with this menu item.

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select "**Add destinations**".

Adding addresses by address entry

4. Select "**Enter address**".
5. If applicable, select "**Country**" and select the country you want in the list.
6. Select the "**Town/postal code**" and "**Street/no.**" menu items one after the other and enter the appropriate details in the input menu.
7. Select "**Store**" to store the entered address for the entry.

Adding destinations by loading from a USB

4. Select "**Load from USB**".
   The data is transferred.

You can only access the "**Load from USB**" transmission mode if there is a USB memory stick attached to the USB interface. To find out more about the permissible USB memory media, please refer to the section "Notes on the media supported" on page 43.

Entering/editing a telephone number for a destination in the destination memory

In the personal destination memory you can create a telephone number for each destination for standard navigation.
You cannot enter or edit a telephone number if the destination you want is a trace or a point of interest (destinations for off-road navigation).

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Telephone number**".
   The input menu for telephone numbers is opened.
5. Enter the number you want and confirm by selecting "**OK**".

Editing the destination name

The two personal destinations "**GO HOME**" and "**GO TO OFFICE**" cannot be renamed.

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Destination name**".
   The input menu is opened.
5. Make the change you want and confirm by selecting "**OK**".

Calling the destination

You can store a telephone number for destinations held in the personal destination memory. This menu item is not available if the telephone function is not available or if you have not stored a telephone number for the destination.

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Call**".
   The number stored in the database is dialled.

Telephone numbers are also stored for the points of interest held on the hard drive. If, for example, you select a point of interest in the map view, you can establish a telephone connection by selecting "**Call**" in the detailed view of the map view.
To find out more, please refer also to the section "Searching for points of interest in the map view" on page 152.

Deleting a destination

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Delete**".

Deleting a destination from the list

5. Confirm the prompt that appears by selecting "**Yes**".
   The chosen destination is deleted from the list.

Deleting the entire list

5. Select "**Delete list**"
   > "**Delete all**".
   The entire personal destination memory is deleted. Deletion also affects the two personal destinations "**GO HOME**" and "**GO TO OFFICE**".

Sending a destination

You can send individual destinations from the personal destination memory as a text message in the form of a vCard or via the *Bluetooth*® interface.

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the destination you want.
4. Select "**Edit**"
   > "**Send**".

Sending a destination via USB

i You can only access the "**To USB**" transmission mode if there is a USB memory stick attached to the USB interface. To find out more about the permissible USB memory media, please refer to the section "Notes on the media supported" on page 43.

5. Select "**To USB**".
   The data is transferred.

Sending a destination as a text message

5. If you choose "**As SMS**", you must enter the telephone number of the recipient in the input menu that appears.
   You can also select the number from the phonebook by selecting the corresponding menu item. To find out more, please refer to the section "Creating and sending a new text message" on page 85.

Sending a destination via the Bluetooth interface

i Please note that the radio connection between both devices must be activated for data transfer using *Bluetooth*®. To find out how to activate this radio connection, please refer to the section "Switching Bluetooth® on" on page 149.

5. Select "**To Bluetooth**".
6. The list of known devices that are suitable for a transfer is displayed. If the device you want is not there, you can search for further devices. To do this, press "**New device**" (see also the section "Points of interest" on page 151). As soon as the search is complete, a list containing the devices found is displayed.
7. Select the device you want.

i You may first need to authorise a new device. To find out more, please refer to the section "Points of interest" on page 151.

Bluetooth® settings

Calling up *Bluetooth*® settings

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select a destination.
4. Select "**Edit**"
   > "**Send**"
   > "**Bluetooth settings**".

Switching *Bluetooth*® on

▷ Select "**Switch on Bluetooth**" in the *Bluetooth*® settings.

Switching *Bluetooth*® off

▷ Select "**Switch off Bluetooth**" in the *Bluetooth*® settings.

Adding a new *Bluetooth*® device

For the PCM to find your *Bluetooth*® device, please ensure that the *Bluetooth*® function on the device has been activated and set to "visible".

1. Select "**New data device**" in the *Bluetooth*® settings.
   A search is started and a list of the devices found is displayed.
2. Choose the device you want by selecting it in the list.
   A *Bluetooth*® code is displayed that you must enter in the corresponding *Bluetooth*® device. Once you have entered the code, successful authorisation of the device is shown on the display.

Establishing a connection from an external *Bluetooth*® device

To find out more, please refer to the section "Establishing a connection from an external Bluetooth® device" on page 69.

Setting visibility

To find out more, please refer to the section "Setting visibility" on page 69.

Authorised *Bluetooth*® devices

This function allows you to display a list of the *Bluetooth*® devices currently authorised to connect with your PCM. The list contains all authorised data devices .

Displaying authorised *Bluetooth*® devices

▷ Select "**List of data devices**" in the *Bluetooth*® settings.

Connecting an authorised *Bluetooth*® device with the PCM

Data devices cannot be connected from the list of devices; they can only be connected by calling the appropriate application, for example when transferring a stored destination.

Renaming an authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Rename**".
   The input menu is opened.
4. Enter the name you want and confirm by selecting "**OK**".
   The name of the device is now changed in the PCM.

Deleting an authorised *Bluetooth*® device from the list

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select the device you want in the list.
3. Select "**Delete**".
4. Confirm the prompt that appears by selecting "**Yes**".

Deleting the list of authorised *Bluetooth*® devices

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Delete**".
4. Select "**Delete list**".
5. Confirm the prompt that appears by selecting "**Delete all**".

Displaying details for the authorised *Bluetooth*® device

1. Select "**List of data devices**" in the *Bluetooth*® settings.
2. Select any device in the list.
3. Select "**Device details**".
   The following information is displayed:
   – the device name,
   – the *Bluetooth*® address as well as
   – the supported services.

Points of interest

Points of interest are petrol stations, car parks, restaurants, hotels or hospitals, for example. They are divided into different categories to make them easier for you to find.

This function is also available in reduced form in the **OPTION** menu of the map view:

- when route guidance is active under the "**Search on route**" menu item,
- when route guidance is not active under the "**Search surroundings**" menu item.

Searching for points of interest by category

1. Press the **NAVI** button.
2. Select "**POI**"
   > "**Category**".
   A list of the available categories is opened.
3. Select the category you want from the list.
   A list containing the subcategories is opened.
4. Select the subcategory you want.
5. You can also restrict the search area if you wish after selecting "**Search radius**":
   - "**Vehicle surroundings**"
     The search is performed in the vicinity of the current location.
   - "**Near destination**"
     The search is performed in the vicinity of the currently active destination.
   - "**Along route**"
     The search is performed along the calculated route.
   - "**Free location input**"
     The search is performed in a user-defined location. You can enter this location in the input menu.

The "**Near destination**" and "**Along route**" menu items are only available during an active route guidance session after the route has been calculated.

6. Select the search area you want.
7. Start the search by selecting "**Show results**".
   A list containing the search result is displayed.

If you chose "**Free location input**" as the search area, you can expand the radius for a new search by selecting the "**Area search**" menu item in the result list.

The result lists for the "**Vehicle surroundings**" and "**Near destination**" search areas show the distance as the crow flies, while the result list for the "**Along route**" search area shows the actual distance.

You can set alphabetical sorting for the "**Near destination**" search area by selecting the first list entry, "**Alphabetical list**".

8. Select the point of interest you want.

If you fill a data field with the "**Distance to next petrol station**" menu item in the personal display of the CAR menu, you can start a route calculation to this petrol station by touching the symbol in the data field.
To find out more, please refer to the section "Setting the contents of the personal display" on page 113.

Searching for points of interest by name

1. Press the **NAVI** button.
2. Select “**POI**”.
3. Specify “**Category**” and “**Search radius**” if applicable.
4. Select “**Name**”.
   The input menu is opened.
5. Enter the first letters of the name of the point of interest. After you enter the first letters of the name, a list containing possible matches is opened.

i If there are fewer than five points of interest stored for the selected category and search area, a list of the points of interest is opened instead of the input menu.

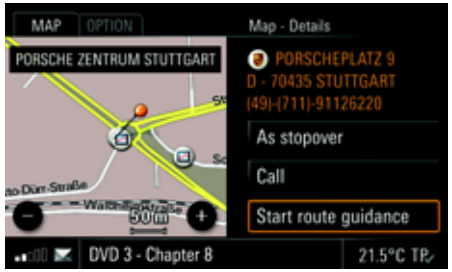
6. Select the point of interest you want in the list.

Searching for points of interest by telephone number

1. Press the **NAVI** button.
2. Select “**POI**”.
3. Select “**Telephone number**”.
   The input menu is opened.
4. Enter the telephone number with country code (without “+” or “00”) and confirm by selecting “**OK**”.
   If there is more than one address stored for the telephone number you have just entered, a list of the addresses is opened.
5. Select the address you want if necessary.

Searching for points of interest in the map view

1. Touch the map view.
   A crosshair is displayed.



2. Briefly touch the symbol for the point of interest in the map view.
   An orange-coloured ring appears around the point of interest and the name of the point of interest and the “**Details**” menu are displayed in the header.
   Open the detailed view by pressing the right rotary knob ➔ or touching the “**Details**” menu in the header.

i You can also view the details for a traffic message or destination flag shown on the display by touching them.

Starting navigation to the point of interest

1. Press the **NAVI** button.
2. Select "**POI**".
   - **or** -
   Touch the map view.
3. Select the point of interest you want.
4. Select "**Start route guidance**".
   The route is calculated and route guidance started.

Changing options for route guidance

The options for route guidance are also available to you in the map view.

Setting a detour

To be able to set a detour, you must have activated the route guidance component of your navigation system.
If you set a number of detours, they always refer to the current route. Older route calculations are discarded.

Setting a detour from the current position

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route options**"
   > "**Detour**"
   > "**Distance ahead**".
   The map view is displayed. You can see your current position as well as the route ahead.
4. Switch from one part of the route section to the next by selecting the two symbols and or by turning the right rotary knob.
5. Select "**Detour**" once you have set the part of the route up to where you want to activate a detour.
   The new route is calculated. The symbol is displayed before the "**Distance ahead**" menu item.

Setting an alternative route

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.

3. Select "**Route options**"
   > "**Detour**"
   > "**Show alt. routes**".
   The map view is displayed. You can see your current route.
   The current route guidance session is aborted.
4. You can show alternative route suggestions in the map view by selecting "**Route 1**", "**Route 2**" or "**Scenic route**".
5. Select "**Start route guidance**" to accept one of these routes after highlighting it.

If you exit the menu by pressing the button, the previously active route guidance is resumed and detours already set are discarded.

Making a detour around route sections

The list of route sections shows the individual sections of the calculated route. The section you are currently driving on when you call up the list appears at the top of the list.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route options**"
   > "**Detour**"
   > "**Route sections**".
   The list of route sections is displayed.
4. Select the route section you want.
   A list containing the parts of this route section is displayed.
5. Select the parts to activate (☑) or deactivate (☐) them.
6. Press the Back button ↩ or the **NAVI** button to activate the detour.
7. The detour is then set. This is indicated by the symbol in front of the "**Route sections**" menu item.

Cancelling a detour

Selecting "**Detour off**" cancels all previously set detours.
The symbol is no longer displayed and a new route is calculated.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route options**"
   > "**Detour**"
   > "**Detour off**".
   All blocks are cancelled.

Setting a fast/quick route

These two route options allow you to influence how the route is calculated.
You can set or change the route options before the route is calculated or during route guidance.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route options**".
4. Activate or deactivate the route option you want by selecting it.
   – **Short route**
   Calculates the shortest route to the destination.
   – **Quick route**
   Calculates the fastest route to the destination.

Setting dynamic route planning (TMC)

If you have activated dynamic route planning, the traffic messages broadcast by the radio stations are taken into consideration when calculating the route.
To find out more about traffic messages, please refer to the section "Displaying traffic messages (TMC)" on page 109.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route options**".
4. Select "**Dynamic reroute**" to activate (☑) or deactivate (☐) the function.

Avoiding a stretch of road

Selecting "**Avoid**" allows you to set restrictions for route planning.
If a restriction is activated (), the PCM calculates a route without this type of road. The symbol is displayed before the "**Avoid**" menu item.
If route planning is not possible with the restriction you have set, you are informed of this in an appropriate message.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route options**"
   > "**Avoid**".
   The following menu items are then available for you to select:
   – "**Toll** ",
   – "**Motorway** ",
   – "**Ferry / Car train** ",
   – "**Tunnel** " and
   – "**Mountain passes** ".
4. Select the respective menu items to activate () or deactivate () the function.
   The route is recalculated.

Stopovers (tour)

You can enter up to four stopovers during an active navigation session and arrange them in any order. The route is recalculated and the destinations are then called at in a so-called tour.
As soon as a stopover is approached as an active destination, it is also displayed in the list of previous destinations.

The complete tour is displayed in the form of a list of destinations. The currently active destination is at the top of the list.
The main destination of the tour is indicated by a black and white destination flag and is the last entry in the list.

If the active navigation session is an off-road session, the "**Stopovers**" and "**As stopover**" menu items are replaced with the "**List of landmarks**" and "**As landmark**" menu items.
To find out more about off-road navigation, please refer to the section "Off-road navigation" on page 159.

Entering stopovers

By entering an address

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Add**"
   > "**Enter address**".
   The address input menu is opened.
4. Enter the address you want.
5. Select "**Accept**".
   If you have already entered at least one stopover, a destination list is opened where you can define the position of the stopover you are in the process of entering.
6. Position the stopover by selecting the "**empty**" list entry at the position you want in the list.

From the list of previous destinations

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Add**"
   > "**Previous destinations**".
   The list of previous destinations is opened.
4. Select the destination you want.
   The destination is accepted as a stopover.

From the destination memory

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Add**"
   > "**Stored destinations**".
   The personal destination memory is opened.
4. Select the destination you want.
   The destination is accepted as a stopover.

Entering a point of interest as a stopover

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Add**"
   > "**POI**".
   The POI search is opened.
4. Select the point of interest you want.
   The destination is accepted as a stopover.
   To find out more about the POI search, please refer to the section "Points of interest" on page 151.

Entering a stopover using geographical coordinates

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Add**"
   > "**Adv. destination input**"
   > "**Geo. co-ordinates**".
   An input menu for geographical coordinates is opened.
4. Enter the geographical coordinates you want and confirm by selecting "**OK**".

Entering a stopover using the map

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Add**"
   > "**Adv. destination input**"
   > "**Destination via map**".
   The map view is displayed.
4. Set the destination you want by touching the map and confirm by selecting "**OK**".

Inserting a destination from the map (point positioning)

1. Touch the map view when route guidance is underway.
   A crosshair is displayed.
2. Touch the symbol for a point of interest or any other point in the map view.
   The name of the point of interest or the address of the chosen point is displayed in the header.
3. Open the detailed view by pressing the right rotary knob or by touching the header.
4. Select "**As stopover**".
   The chosen destination is stored in the destination list as point positioning and indicated with the symbol.

Via destinations

If you have selected a motorway junction as a stopover, this stopover is interpreted as a via destination.
As soon as a stopover is approached as an active destination, the via destination is also displayed in the list of previous destinations.

No estimated time of arrival is given for via destinations.

Deleting stopovers

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Delete**".
   The destination list is opened.

Deleting a destination from the list

4. Select the destination to be deleted in the list.
5. Confirm the prompt that appears by selecting "**Yes**".
   The destination is deleted from the list.

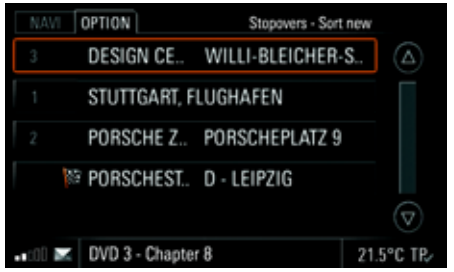
Deleting the entire list

4. Select a stopover in the list.
5. Select "**Delete list**".
6. Confirm the prompt that appears by selecting "**Yes**".
   The entire list apart from the main destination is deleted and route guidance is resumed to the main destination.

Storing stopovers in the personal destination memory

You can store all stopovers entered as well as the main destination individually in the personal destination memory.

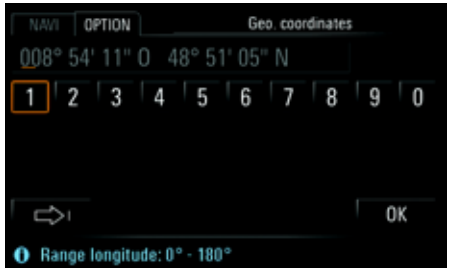
1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Store**".
   The destination list is opened.
4. Select the destination you want to store in the list.
   The input menu is opened.
5. Enter the name you want for the destination and confirm by selecting "**OK**".
   The destination is stored in the personal destination memory under the entered name.



Reorganising the stopovers

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Stopovers**"
   > "**Sort new**".
4. Select the entries in the order you want to navigate to them.

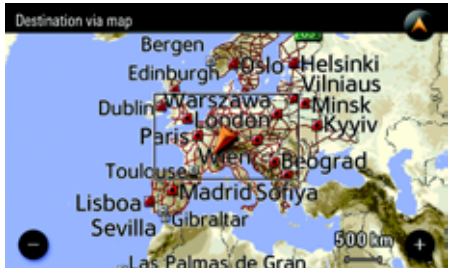
You can end the reorganisation without completing it by selecting the Back button. The stopovers not yet reorganised are then appended in their current position to those already sorted.
Once you have reorganised all the stopovers, the list is automatically closed and route guidance to the new active destination started.



Destination input using geographical coordinates

If you know the geographical coordinates for a destination, you can use them for destination input.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Adv. destination input**" > "**Geo. co-ordinates**".
   An input menu is opened.
4. Enter the geographical coordinates you want and confirm by selecting "**OK**".
5. Select "**Start route guidance**".
   The route is calculated and route guidance started.



Destination input using the map

You can use the map view for destination input as an alternative to entering an address.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Adv. destination input**" > "**Destination via map**".
   The map view is displayed.
4. Set the destination you want by touching the map.
5. Open the detailed view by pressing the right rotary knob or touching the "**Details**" menu in the header.
6. Select "**Start route guidance**".
7. The route is calculated and route guidance started.

Storing

This menu item allows you to store both a destination and your current position.

You can also access this function in the **OPTION** menu in the map view.

Storing a destination

If route guidance is currently active, you can store either the destination or the entire route depending on the type of route guidance in your personal destination memory. The menu item provided here is tailored to the respective situation.

The following options are available:

– "**Store destination**"
  is displayed during route guidance to an address, a geographical coordinate or a point of interest.
– "**Store tour**"
  is displayed during route guidance to a stopover or to the main destination in a tour.
– "**Store landmarks**"
  is displayed when off-road navigation is active when tracing a landmark navigation session.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Store**".
4. Select the menu item shown (e.g. "**Store destination**").
   The input menu is opened.
5. Enter the name you want by selecting the individual letters in the input menu and confirm your entry by pressing "**OK**".

Storing a position

You can store your current position in your personal destination memory as a geographical coordinate by selecting "**Store position**".

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Store**".
4. Select "**Store position**".
   The input menu is opened.
5. Enter the name you want by selecting the individual letters in the input menu and confirm your entry by pressing "**OK**".

Off-road navigation

Off-road navigation allows you to navigate in non-digitised areas (no digital map data available for this area on the hard drive).

Observe the applicable regulations in the country in which you are driving. Driving a vehicle off official roads is **not** permissible in all countries.

Off-road navigation is generally performed only with the aid of direction arrows and simple navigation announcements. Even when you are driving on a road available in the digital map data on the hard drive, route guidance is via direction arrows only.
Off-road navigation works best when the vehicle is located a significant distance (> 100 m (approx. 330 feet)) from the digitised road network.

Display during off-road navigation

The following information is displayed during an active off-road navigation session:

- A compass display with a vehicle symbol in the centre of the compass rose.
- The direction to the next landmark (stopover) symbolised by an orange-coloured direction arrow.
- The directional deviation from the ideal route is symbolised by an orange-coloured arc segment.
- The distance as the crow flies to the next landmark (stopover).

Arrival time during off-road navigation

During off-road navigation, the arrival time displayed in the **CAR** menu and elsewhere is calculated based on an assumed average speed of 36 km/h (approx. 22 mph).

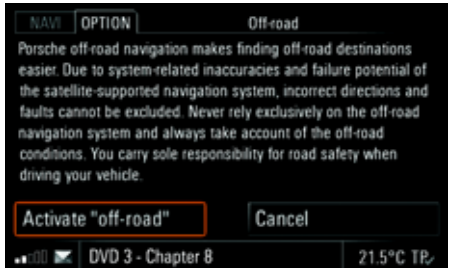
Determination of the vehicle position during off-road navigation

The vehicle position is determined with the aid of a GPS antenna and a receiver in the navigation module. GPS stands for **G**lobal **P**ositioning **S**ystem and is a satellite-assisted position tracking system.
Further vehicle signals (e.g. speed) are evaluated and processed in the navigation computer to calculate the vehicle position.
This enables the system to automatically correct signal changes due to wheel changes (altered tyre diameter), temperature or air pressure variations.

Activating/deactivating off-road navigation

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**" > "**Off-road**".
4. Select "**Off-road**" to activate (☑) or deactivate (☐) the function.

Off-road navigation is automatically activated when you select an off-road destination (a landmark list or a trace) from the destination memory.



Safety notice for off-road navigation

When you activate off-road navigation you are shown a notice that off-road navigation serves only to **assist** the driver.

▷ Select "**Activate „off-road"**" to close this safety notice.

Landmark navigation

Within the framework of landmark navigation you can

- enter a destination by entering an address (> page 141),
- enter a destination by specifying the geographical coordinates (> page 158),
- enter a destination in the map view (> page 156),
- insert a destination from the list of previous destinations (> page 144),
- insert a destination from the personal destination memory (> page 146),
- enter a point of interest (> page 151) and
- enter a maximum of four stopovers, in this case termed "**Landmarks**" (> page 155).

Destinations in the digitised area can also be selected from lists and navigated to when off-road navigation is active.
These destinations are then reinterpreted as off-road destinations and navigated to using landmark navigation.

During off-road navigation, only individual destinations (landmarks) are stored in the list of previous destinations.
Landmark lists can be stored in the personal destination memory.

Route guidance in landmark navigation

Route guidance is by means of a compass display with the vehicle symbol in the centre of the compass rose.
The orange-coloured direction arrow always points in the direction of the landmark currently being navigated to.
The various landmarks are shown as coloured flags.
The angular deviation between the current direction of travel and the direction to the next landmark is shown as an orange-coloured arc segment and indicated in degrees.

Map view in landmark navigation

The individual landmarks are shown as flags in the map view:

- Orange-coloured flag: next landmark
- Blue flags: landmarks that have not yet been driven to
- Checked flag: the current destination landmark.

The routes between the landmarks that have not yet been driven are shown with a blue line.

If the route has not yet been covered in full, the portion of the line already covered is shown in orange.

Additionally, a compass is displayed at the top left to aid orientation.
When a landmark is reached, the system outputs the message “Landmark XX reached”.

Recording a trip section (trace)

Off-road navigation allows you to record a section of a trip, even in non-digitised areas. This is done by setting navigation points (“trace points”).
A section of this type is called a trace.

Traces can be recorded in off-road mode while route guidance is active.

You can record and store up to 15 traces in the personal destination memory.
Traces are not stored in the list of previous destinations.

Map view during trace recording

During trace recording, the recorded route of the trace is shown as a blue line in the map view.

Map view when following a trace

When you drive a recorded trace, the route ahead is shown in the map in orange and the route already covered is shown in grey.

Starting recording

1. When off-road navigation is activated, press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**"
   > "**Off-road**"
   > "**Record trace**".
4. Select "**From start point**" if you want to start recording from the start of the journey. Trace recording is continued, starting from the current point. The data automatically stored from the beginning of the journey is transferred.
   - **or** -
   Select "**From current position**" if you want to start recording from the current position. The data automatically stored from the beginning of the journey is deleted.

If you have already recorded a trace during the trip, deleted the trace or changed the grid for setting the navigation points, you will only be able to record a new trace using the "**From current position**" function.

You can also access the "**Record trace**" and "**End trace**" functions in the option menu in the map view when off-road navigation is activated.

Ending trace recording

1. Press the **NAVI** button while recording is underway.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**"
   > "**Off-road**"
   > "**End trace**".

Storing a recording

As soon as you end a trace recording you are asked whether this trace should be stored in the destination memory.

1. Confirm the prompt that appears by selecting "**Yes**".
2. The input menu is opened. A suggestion for a name is already provided in the input field.
3. Change the suggested name as you want and confirm your entry by selecting "**OK**".

Setting the grid for automatic setting of the navigation points

You can set the intervals at which the so-called trace points are set during trace recording:

– "**Optimised**"
  The navigation system automatically generates a navigation point at geometrically practical locations in order to record the trace.
  The number of navigation points set by the system depends on the frequency of the changes in direction.
– "**Set ... mls**"
  Here you define at what point in the driven route a navigation point is to be set during trace recording. The navigation points are set regardless of any changes in direction.

Up to 1,000 trace points per trace are set during recording. The setting chosen when setting the points determines the maximum route that can be recorded.
The memory remaining for the active recording is displayed in the map.

1. When off-road navigation is switched on, press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**"
   > "**Off-road**"
   > "**Off-road settings**".
4. Select "**Recording mode**".
5. Set the grid you want by selecting it.

Setting trace points manually

You can also set trace points manually during trace recording.

1. Press the **NAVI** button while trace recording is underway.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**"
   > "**Off-road**"
   > "**Set trace point**".

Tracing a route

You have various options when tracing routes, based on the trace direction ("**Trace forward**" and "**Trace backward**") and trace point ("**From start point**" and "**From current position**"):

– From start point, trace forwards:
  You are directed to the start point of the recording and drive the trace from the start point to the end point.
– From start point, trace backwards:
  You are directed to the end point of the recording and drive the trace from the end point to the start point.
– From current position, trace forwards:
  You are directed to the closest point in the trace and drive the trace in the direction of the end point.
– From current position, trace backwards:
  You are directed to the closest point in the trace and drive the trace in the direction of the start point.

After starting navigation, you are navigated to the next navigation point. Route guidance is by means of a compass display with the vehicle symbol in the centre of the compass rose.

The orange-coloured arc segment points in the direction of the navigation point currently being navigated to. The angular deviation between the current direction of travel and the direction to the next navigation point is shown as an orange-coloured segment. The angular deviation is indicated in degrees.

1. Press the **NAVI** button.
2. Select "**Stored destinations**".
   The personal destination memory is opened.
3. Select the trace you want in the list.
4. Select "**Start route guidance**".
   If off-road navigation is not yet activated, the safety notice is displayed.
5. Confirm the safety notice with "**Activate „off-road"**" if applicable to activate off-road navigation.
6. Select the direction of travel you want and the start point you want along the route to be driven.
   Route guidance is started.

Reloading data

Changing the navigation database

If the selected destination lies outside of the current navigation database, a route is calculated to a point that is close to the destination entered and is located within the database. Route guidance from this point is interpreted as off-road route guidance, as there is no map data available.

If there is additional map data available on the PCM, this can be reloaded.

If a selected destination lies outside of the current database and there is a geographical coordinate saved for this destination, route guidance to this destination can be started.

1. Press the **NAVI** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET NAVI**"
   > "**Re-load data**"
   > "**Database switch**".
   A list of the available databases is opened.
4. Select the required database in the list.
5. Confirm the prompt that appears and perform the database search by selecting "**Yes**".

MAP

Map display 166
Changing the scale of the map..... 166
Moving the map..... 166
Setting 3D display 166
Displaying traffic messages..... 167
Setting the display of the total route..... 167
Setting autozoom 167
Displaying destination/location info 167
Operating the map menu using symbols 167
Displaying sections of the route..... 168
Setting the display layout 168
Compiling map contents..... 169
Basic voice control functions..... 175
Setting the volume..... 175

Map display

You call up the map view of the navigation system by pressing the **MAP** button.

Your vehicle is shown in the map view as a triangular arrow. The arrowhead points in the direction of travel. The centre of the vehicle is represented by the black dot in the middle of the small triangle.

The recommended driving route, streets, rivers, railroad tracks, wooded areas or lakes are displayed as coloured lines or areas.

The detail depends on the map scale set.

When route guidance is active, either the expected time of arrival or the remaining trip time in hours and distance from destination are displayed at the bottom of the display. You can switch back and forth between the two options by briefly touching the display.

You can choose for yourself the content shown in the map view. To find out more, please refer to the section “Compiling map contents” on page 169.

You can also call up and operate the map view menu using symbols. To find out more, please refer to the section “Operating the map menu using symbols” on page 167.

Changing the scale of the map

The current scale is shown in the bottom right of the map in the map display.

▷ Set the map scale you want by turning the right rotary knob .

A number of map views also display the two symbols and .

▷ Change the map scale you want by touching the two symbols on the display.

Moving the map

You can move the map section shown on the display as you want. You have two options for doing this:

▷ Briefly touch the display to move the map section so that the centre point of the map is at the point you touched.

- or -

▷ Touch and hold a point in the map view to keep moving the map in the direction of this point. The map will keep moving until you stop touching the screen.

Setting 3D display

If this function is activated, a three-dimensional map view is shown.

1. Press the **MAP** button.
2. Call up the map view menu by pressing the right rotary knob .
3. Select “**Bird’s-eye view**” to activate ( ) or deactivate ( ) the function.

Displaying traffic messages

When this function is activated, traffic information is also shown in the map view.

1. Press the **MAP** button.
2. Call up the map view menu by pressing the right rotary knob ➔.
3. Select "**Show traffic**" to activate (☑) or deactivate (☐) the function.

Setting the display of the total route

If you have activated this function, the total route from the vehicle position to the destination flag is displayed during route guidance.
The map scale is automatically adapted.

1. Press the **MAP** button.
2. Call up the map view menu by pressing the right rotary knob ➔.
3. Select "**Total route**" to activate (☑) or deactivate (☐) the function.

Setting autozoom

If you have activated this function, the entire current route section is displayed.
As soon as you leave the current route section, the next route section is displayed in the map. The map scale is calculated and dynamically adapted according to the length of the new route section.

1. Press the **MAP** button.
2. Call up the map view menu by pressing the right rotary knob ➔.
3. Select "**Autozoom**" to activate (☑) or deactivate (☐) the function.

Displaying Destination/Location info

When route guidance is active, selecting the "**Show destination**" or "**Show location**" function displays the relevant position in accordance with the zoom functions currently active.

1. Press the **MAP** button.
2. Call up the map view menu by pressing the right rotary knob ➔.
3. Select "**Show destination**".
   The destination town is displayed on the map.
4. If necessary, select "**Show location**".
   The current location of the vehicle is displayed on the map.

Operating the map menu using symbols

If you have activated the "**Map menu**" menu item in the map display, you can also operate the map menu functions by touching the corresponding symbols on the display.
To find out more, please refer also to the section "Compiling the map information" on page 169.

1. Press the **MAP** button.
2. Touch the symbol for the map menu on the display.
   The following symbols are displayed:

Switch three-dimensional map view on/off

Show/hide traffic messages

Switch display of the total route on/off

Switch autozoom on/off

Switch between location map and destination map

3. To activate or deactivate a menu item, briefly touch the menu item on the display.

i When menu items are activated, the corresponding symbols are displayed in orange.

Displaying sections of the route

If you have started the route guidance component of your navigation system, a list containing all sections of your route will be displayed.

1. Press the **MAP** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**Route list**".
   The sections of your route are listed and displayed.
   The section you are currently driving on is at the very top of this list and the final destination at the very bottom.
4. Select the section you want for a more detailed view.
   You then see a map section showing the route section in question.
5. You can adjust the map scale by touching the two symbols ⊕ and ⊖, as well as scroll through the various sections by touching the symbols ◁ and ▷.
6. If you wish to detour around this section of your route, select "**Detour**".
   To find out more about setting detours, please refer to the section "Setting a detour" on page 153.

i This function is also available under the "**Route list**" menu item in the **INFO** menu.
If off-road navigation is activated, a restricted version of this function is available with so-called landmark navigation.

Setting the display layout

You have four options for dividing the display while route guidance is active:

– "**Full screen map**"
  The map is shown across the entire display.
– "**With guidance**"
  In addition to the relevant map section, the next driving instruction is shown in the right half of the display.
– "**With direction list**"
  In addition to the relevant map section, the next manoeuvre is shown with the help of pictograms.
– "**With route preview**"
  In addition to the map section containing the current position, a further map section containing the route ahead is shown.

1. Press the **MAP** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.

3. Select “**SET MAP**”
   > “**Map layout**”.
   The various options for the display layout are shown.
4. Select the layout you want.
   The chosen layout is set.

Switching between different layouts

▷ If you choose the “**With guidance**”, “**With direction list**” or “**With route preview**” layout, you can switch to the full-screen map by briefly touching the right half of the display.
The driving instructions are then shown in a small window in the top left corner of the display.

▷ In the “**Full screen map**” layout, you can switch to the previously set split screen layout by briefly touching the so-called mini driving instructions in the top left corner.

Compiling map contents

You can adapt the map view to your requirements by selecting various elements and settings.

Compiling the map information

1. Press the **MAP** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET MAP**”
   > “**Map view**”.

The following map display criteria are then available to you:

– “**Junction zoom**”
When this function is activated, the upcoming driving manoeuvre (e.g. leaving the motorway) is displayed greatly enlarged during route guidance.

If you press the Back button while a driving manoeuvre is shown in enlarged form, the enlarged view is cancelled. However, the function remains active.
Pressing the Back button again reactivates the enlarged display.

If you have activated the “**Junction zoom**” function and an upcoming driving manoeuvre is displayed in enlarged form, it is not possible to display another function such as “**Show destination**” at this point.

– “**Bird's-eye view**”
When this function is activated, a perspective map view is displayed.
– “**Terrain model (Bird's-eye view)**”
When this function is activated, a 3D terrain model is displayed.
– “**3D building**”
When this function is activated, a 3D town model is displayed when the 3D map is activated.
– “**3D POIs**”
When this function is activated, the 3D points of interest are only displayed in the 3D map.
– “**Satellite image**”
When this function is activated, a satellite image is displayed for a scale of over 2 km (approx. 1.2 miles).
– “**Speed limit**”
When this function is activated, speed limits are displayed in the driving instructions (see CAR).

WARNING!

Accident hazard. The navigation system is only intended as an aid to the driver. This does not release you from your full responsibility for observing road safety, traffic conditions, legal road traffic regulations and any other relevant regulations while driving your vehicle.

Road signs en-route should always be heeded. The speed limit displayed by the PCM may not always be correct.

As the driver, **you** must assess the particular speed limit. **You** have sole responsibility for road safety while driving your car.

▷ Continue to heed road signs en-route.

– "**Show traffic**"
  When this function is activated, the traffic messages are displayed in the map view.
– "**Guidance**"
  When this function is activated, driving instructions are displayed in the form of arrow symbols.
– "**Footer (station/track)**"
  When this function is activated, the footer is also shown in the map view.
– "**Map menu**"
  When this function is activated, a symbol is displayed in the map view that gives you access to all of the functions of the map menu.
– "**North arrow**"
  When this function is activated, a north arrow is displayed.
– "**North orientation**"
  When this function is activated, the map will be oriented to the north. If the "**Bird's-eye view**" option is active, the "**North orientation**" option has no function.
– "**Day/night switchover**"
  The following options are available for you to select:
  – "**Automatic**"
    The map view automatically switches from day design to night design as a function of the vehicle lighting.
  – "**Day**"
    The map view always remains set to the day design colours. This means the display colours are optimised for legibility.
  – "**Night**"
    The map view always remains set to the night design colours. The display colours are dimmed to prevent glare.
– "**Display arrival time**"
  You can choose whether the estimated "**Arrival time**" or the "**Remaining time**" is to be displayed in the map view.

4. Select the various list items to show (☑) or hide (☐) them in the map view.
   The map view is adapted in accordance with your settings.

Compiling the points of interest to be displayed

1. Press the **MAP** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET MAP**"
   > "**Show POIs**".
   The list containing the various point of interest categories is displayed.
4. Select the point of interest category you want.
   The list containing the associated subcategories is displayed.
5. Select the various subcategories to show (☑) or hide (☐) them in the map view.
   The map view is adapted in accordance with your settings.

Voice control

How voice control works 172
Incorrect operation and cancelling a dialogue 172
Functions of the button on the stalk for direction indicators, high beam and headlight flasher 172
Speech intelligibility 172
Symbols in sample dialogues 173
Commands 173
Local commands 173
Global commands 173
Voice entries 174
Activating voice control 175
Deactivating voice control 175
Setting the language 175
Configuring the voice control system 176
Performing voice adaptation 177
Using the help function 177
Operating lists using voice control 178
Operating examples 179
Operating example for radio mode 179
Operating example for TV tuner 181
Operating example for CD/DVD mode 182
Operating example for iPod mode 183
Operating example for telephone mode 185
Operating example for navigation mode 189
Operating example for map 192

Please refer to the information on operation and road safety on page 6.

The PCM is fully voice controllable (with the exception of the functions in the **CAR** and **SOUND** menus as well as the various SET menus).

The voice control system is designed so that you can generally say **each** menu item shown on the display. Exceptions are indicated by an appropriate message on the display of the PCM.

Voice control is activated by pressing the button on the stalk for the direction indicators, high beam and headlight flasher (please see also section “Activating voice control” on page 175). This allows you to operate the PCM without taking your hands from the steering wheel.

How voice control works

The voice control system recognises commands or numerical sequences regardless of the speaker. It provides acoustic feedback and guides you through the functions.

Incorrect operation and cancelling a dialogue

If you say an incorrect or unavailable command, the voice control system responds with “Could you repeat that?” and you can repeat the command. After the 2nd failed attempt, the system offers assistance; after the 3rd failed attempt, the PCM aborts the operation and terminates the dialogue with “End”.

You have the following options for terminating voice control during a dialogue:

- ▷ Say “cancel” when the voice control system is expecting a command.
- ▷ Say “End” when the voice control system is expecting a command.
- ▷ Press any button on the PCM.
  The PCM then executes the function corresponding to the pressed button.
- ▷ The only exception to this is the volume control. You can only use this button to adapt the volume of the announcements, not to terminate a dialogue.

Functions of the button on the stalk for direction indicators, high beam and headlight flasher

By pressing the button on the stalk for direction indicators, high beam and headlight flasher you can:

- terminate a voice control announcement while it is in progress,
- skip to the next part of the announcement in the case of announcements with multiple parts,
- cancel a dialogue manually.

The button has no function during a telephone call.

Speech intelligibility

To make it easier for your voice control system to understand your commands, please note the following points:

- The hands-free microphone is directed towards the driver’s seat. The voice control system should therefore be operated by the driver.
- Do not speak while your voice control system is making an announcement.
- Speak without interruptions and at a normal volume. Avoid long pauses and excessive emphasis.

– Reduce background noise by closing the windows, doors and sunroof.
– While giving voice commands, avoid other noise in the vehicle (e.g. passengers speaking among themselves).

WARNING!

Accident hazard Since stressful situations can cause your voice to change, it may happen that a telephone connection you want is not established quickly enough.

▷ Do not use the voice control system to operate the telephone in cases of emergency.

For safety reasons, an **emergency call can only be initiated directly** on the device.

Symbols in sample dialogues

A number of the voice commands initiate dialogues between you and the voice control system. A few of these dialogues are presented in the operating manual as examples.

The following symbols are used in the sample dialogues:

symbol
This symbol identifies a voice command spoken by you.

symbol
This symbol identifies an announcement made by the PCM.

symbol
This symbol identifies a message shown on the PCM display.

Beep symbol
This symbol identifies the audible signal that sounds as soon as the PCM is ready to accept a command.

Commands

The commands supported by your voice control system are divided into two categories:

Local commands

Local commands can only be spoken within the respective main function. They are not listed here since they include all menu items shown on the display. The only exceptions are the **CAR** and **SOUND** menus as well as the various SET menus. These are not voice controllable.
Voice control for lists is different and is described in the section “Operating lists using voice control” on page 178.

Global commands

Global commands can be spoken in any function. They include:

– the main functions of your PCM,
– selected shortcuts (branching directly to a function without opening its main function beforehand) as well as
– the various help topics.

Global commands for the voice-controlled main functions:

- Tuner, radio
- Disc, CD
- phone, Telephone
- info
- navi, Navigation
- map

Global commands for the non-voice-controlled main functions:

- sound
- car

Global commands related to the telephone:

- call, phone
- call name, make call to name
- Dial number

Global commands related to navigation:

- go to destination, go to destination ...*
- begin route guidance
- cancel route guidance
- enter address
- input country
- input town
- input street
- input junction
- go home
- go to office
- search ATM
- search hotel
- search restaurant
- search petrol station

Global commands for the help function:

- help
- help voice control
- help devices
- help source
- help tuner
- help disc
- help phone, help telephone
- help info
- help navi, help navigation
- help map
- help option

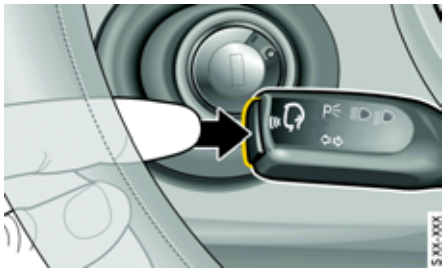
Other global commands:

- source
- traffic messages
- set TP
- deactivate set TP
- traffic messages, show traffic messages, Read out traffic messages on route
- cancel, end
- back

Voice entries

You can assign so-called voice entries for entries in the phonebook as well as for destinations in your personal destination memory.
These voice entries are intended to make it easier for you to call up people or places with names that are difficult to understand (e.g. foreign names).
You can assign 20 voice entries each for the phonebook and destination memory.

Please note that recognition of the voice entries depends on the language currently selected for the voice control system.
Therefore, always use the language that you wish to use for voice control when creating the voice entries.
If you change the language, the system may no longer reliably recognise the voice entries that you have trained it for in another language.



Basic voice control functions

Activating voice control

You cannot activate the voice control system while you are on a telephone call.

1. Switch on the ignition and the PCM.
2. Press the button on the stalk for the direction indicators, high beam and headlight flasher. An audible signal sounds after a short time, the voice control system is activated and awaits a spoken command. If you do not say a command, the voice control system prompts you to speak with the request, “Could you repeat that?”.

As soon as the voice control system is activated, you will see one of the following symbols at the top right of the display:

– = The voice control system is awaiting a spoken command.
– = The voice control system is currently making an announcement.

Deactivating voice control

You can deactivate the voice control system as follows:

▷ Press the button on the stalk for the direction indicators, high beam and headlight flasher.

- **or** -

▷ Say “cancel” or “end” when the voice control system is expecting a command.

After the system is deactivated, you will hear a confirmation announcement of “End”, after which the voice control system switches off.

Setting the volume

You can change the volume of the voice control system announcements to compensate for changes in the ambient noise during the journey, for example.

1. Activate the voice control system and say a command such as “help”.
2. Turn the volume control on your device during an announcement to raise or lower the volume of the announcement.

The volume of the voice control system announcements is independent of that of the telephone and audio system.

Setting the language

The voice control system recognises various languages. When you change the language, it affects voice input by the user, voice output by the PCM and the language shown on the display.

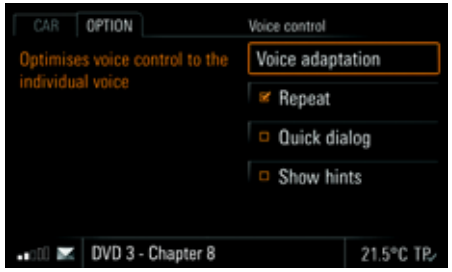
Selecting the language yourself

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**" > "**PCM language**".
4. Select the language you want.

Adapting the language to the instrument cluster

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**" > "**PCM language**".
4. Select "**Automatic**".
   The language of the instrument cluster is set.

If the language of the instrument cluster is not available as a language in the PCM, the language "English GB" is set.



Configuring the voice control system

You can configure how you interact with the voice control system in just a few steps.

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select "**SET PCM system**" > "**Voice control**".
   The following options are then available for you to select:

– "**Repeat**"
  The voice control system repeats all recognised commands. You can switch off this repetition. Switching it off makes using the voice control system faster but this comes at the expense of not knowing whether the voice control system has correctly recognised the command given.
  Voice entries and digits are always repeated, even if the function is switched off.

– "**Quick dialog**"
  If you activate this function, the PCM outputs certain announcements in an abridged form. This does not change the information content of the announcements. This option is useful for experienced users.

– "**Show hints**"
  This function is switched on at the factory. If it is switched on and voice control is activated, the PCM shows you commands that are available in addition to the menu items already shown.

4. Select to activate (☑) or deactivate (☐) the respective function.

Performing voice adaptation

The voice adaptation function allows you to individually adapt the voice control system to your voice, thereby improving the voice recognition. This does not impair the recognition of other users.

Adaptation can only be performed when the vehicle is stationary. Please note the first five points in the section “Speech intelligibility” on page 172 in connection with this.

Starting/cancelling voice adaptation

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PCM system**” > “**Voice control**” > “**Voice adaptation**”.
4. Select “**Start adaptation**”.
   Adaptation starts and commences interaction with the user.
5. Follow the instructions of the PCM and repeat each command and numerical sequence after the tone.
   Adaptation ends automatically after the last command and the data is automatically stored.
6. Select “**Cancel**” to abort the adaptation.
   In this case no data is stored.

Deleting voice adaptation

1. Press the **CAR** button.
2. Press the **OPTION** button or touch the tab of the same name in the header.
3. Select “**SET PCM system**” > “**Voice control**” > “**Voice adaptation**”.
4. Select “**Delete adaptation**”.
5. Select “**Yes**” or “**No**”.
   The adaptation is deleted or not deleted depending on your selection.

Using the help function

Help functions in the PCM

The voice control system features an integrated help function with commands that are always available. You will find an overview of the commands in the section “Global commands”, subsection “Global commands for the help function:” on page 174.

Below you will find a brief description of the most important help commands.

– “help” command:
  When you say this command, the PCM reads out the commands available for the menu items currently shown. It also tells you the commands to use to obtain further help.
– “help voice control” command:
  This command interactively guides you to the help you need using the available help topics and help areas.
– “help devices” command:
  After this command, the PCM prompts you for the main function on which you need help, for example tuner or disc. You are then interactively guided to the help you want using the available help topics and help areas.

– “help” command, followed by a main function, e.g. “Disc”:
  This command allows you to skip the step of specifying the main function for which you need help. It brings you directly to the help for a specific main function.

Like the voice control system, you can also deactivate the help. To find out how to do this, please refer to the section “Deactivating voice control” on page 175.

Help texts in the instrument cluster

During a dialogue between you and the voice control system, information, voice-controlled commands and lists are displayed in the instrument cluster of your vehicle.
To find out more, please refer also to the corresponding chapter in the owner’s manual.

Operating lists using voice control

Scrolling in a list

You can scroll through any list using the commands “scroll down” and “scroll up”.

Voice-controlled lists

If you see the symbol to the right of a list entry, it means that the list is voice controllable.

You have the following options for selecting a row in voice-controlled lists:

▷ Saying the contents as they are displayed in the row.

- **or** -

▷ Say the command “line number”, directly followed by the number you see on the right end of the row.

Non-voice-controlled lists

With non-voice-controlled lists, you can only select a row using the row number.

▷ Say the command “line number”, directly followed by the number you see on the right end of the row.

Reading out list contents

In voice-controlled lists you can have the list contents read out. The PCM starts with the highlighted list row and reads out the list down to the last row.

▷ Say the command “read out”.

Operating examples

The voice control system is designed so that you can say each menu item shown on the display. If you activate the “Show hints” function, exceptions are indicated by an appropriate message on the display of the PCM.
The PCM also shows you the most relevant commands possible at that time as soon as you are prompted to enter a command. To find out more, please refer to the section “Configuring the voice control system” on page 176.

Due to the large number of control options, we have chosen to provide a number of operating examples on the following pages instead of a full listing of all voice-controlled functions.

Operating example for radio mode

Calling up radio mode and switching waveband

▷ Activate voice control.

Beep

“Tuner”.

“Tuner”.
The PCM switches to radio mode if another mode was active prior to the command being entered. If radio mode was already active, the waveband is switched.

Selecting the preset memory

You can select a preset memory directly. Do this by saying the command “preset memory FM 1”, for example.

Tuning to a currently receivable FM station

If you know the currently receivable FM stations and if radio mode is your active audio source, you can tune to the station you want by saying its name.

▷ Activate voice control.

Beep

“Station BBC Radio 3”.

“Station KCRW”.
The PCM tunes to the corresponding station.

Tuning to stored FM stations

You can either say the name of a stored station from the FM main menu or the number of the corresponding memory location.

▷ Activate voice control.

Beep

“Station BBC Radio 3”.

“Station KCRW”.

- **or** -

▷ Activate voice control.

Beep

"Station number 1".

"Station number 1".
The PCM tunes to the corresponding station.

Tuning to stored AM stations

You can say the memory location of a stored station from the AM main menu.

▷ Activate voice control.

Beep

"Station number 1".

"Station number 1".
The PCM tunes to the corresponding station.

Entering a frequency

You can also tune to FM and AM stations by entering the frequency. The frequency input menu only accepts frequencies within the given waveband:

– FM waveband: 87.5 - 108.0 MHz, with 0.5 MHz increments.
– AM waveband: 531 kHz - 1620 kHz, with 1 kHz increments.

Example for entering the frequency 98.4 MHz in the FM waveband:

▷ Activate voice control.

Beep

"Manual tune".

"Manual tune".

The display switches to the frequency input menu.

"Please say the desired frequency".
Beep

"Ninety-eight point four".

"Frequency Ninety-eight point four megahertz".
The PCM tunes to the corresponding frequency; the frequency input menu stays open.

With the command "frequency" directly followed by the MHz frequency you want, you can enter a frequency without the display changing to the frequency input menu.

Station search

You can use the commands "next station" and "previous station" to start the station search in the FM or AM waveband. The search scans upwards or downwards and automatically stops at the next receivable station.

Automatic station search (autostore)

The automatic station search fills the memory of the preset memory currently selected with the six stations with the strongest reception signal at the present time.
Any stations that have already been stored (e.g. manually stored) are overwritten.
This function is not available for preset memories BEST FM and MIXED.

Example for entering an autostore in the preset memory FM1:

▷ Activate voice control.

Beep

"Autostore FM1".

"Autostore FM1".
The PCM starts the function.

Starting/stopping the scan function

If you activate this function, each station found within the frequency range will be played for approx. 5 seconds.

▷ Activate voice control.

Beep

"Start scan".

"Start scan".
The PCM plays the stations one after the other.

▷ Activate voice control.

Beep

"Stop scan".

"Stop scan".
The PCM tunes to the station currently playing.

Switching the traffic programme on/off

Switch the traffic programme on and off using "set TP" and "deactivate set TP".

Tuning to stations from the station list

The station list is available in the FM waveband and contains all currently receivable stations.

▷ Activate voice control.

Beep

"Station list".

"Station list".

The station list is displayed.

▷ Scroll through the list using the commands "scroll down" or "scroll up" until you find the station you want.

The following two options are available to you for tuning to a station:

"Station BBC Radio 3".

"Station BBC Radio 3".
The PCM tunes to the station BBC Radio 3.

- or -

"Line number 3".

"Line 3".
The PCM tunes to the corresponding station.

You can also tune to a station from the station list directly without calling up the list first. Say the "Station" command, directly followed by the name of the station as it appears in the list.
The station list is a voice-controlled list; to find out more about this please refer also to the section "Operating lists using voice control" on page 178.

Operating example for TV tuner

Calling up TV mode

▷ Activate voice control.

Beep

"Tuner TV".

"Tuner TV".
The PCM switches to TV mode.

Selecting the preset memory

You can select a preset memory directly. Do this by saying the command "preset memory TV 1", for example.

Station search

You can use the commands "next station" or "previous station" to start the station search. The search scans upwards or downwards and automatically stops at the next receivable station.

Tuning to stations from the station list

The station list contains all the stations that can currently be received.

▷ Activate voice control.

Beep

"Read out station list".

"Read out station list".
The stations are read out one after the other.

The following two options are available to you for tuning to a station:

"Station BBC1".

"Station BBC1".
The PCM tunes to BBC1.

- **or** -

"Line number 3".

"Line 3".
The PCM tunes to the corresponding station.

Calling up video text pages

▷ Activate voice control.

Beep

"Video text".

"Video text".
Video text appears.

The following two options are available to you for opening a video text page:

"next page".

"next page".
The PCM opens the page.

- **or** -

"Page 333".

"Page 333".
The PCM opens the corresponding page.

Operating example for CD/DVD mode

Calling up CD/DVD mode

▷ Activate voice control.

Beep

"Disc".

"Disc".
The PCM switches to disc mode.

Selecting a track from the track list

The track list contains all the tracks on the CD/DVD currently being played.

▷ Activate voice control.

Beep

"Track list".

"Track list".

The track list is displayed.

Selecting a track from the track list:

▷ Scroll through the list using the commands "scroll down" or "scroll up" until you find the track you want.

"Line number 3".

"Line 3".
The PCM plays the corresponding track.

If the disc currently playing is an MP3 CD/DVD, the track list shows the names of the root directories as well as the subdirectories. You can also choose folders and playlists using the "line number" command, directly followed by the corresponding number.
The track list is a non-voice-controlled list; to find out more about this please refer also to the section "Operating lists using voice control" on page 178.

Choosing a track by skipping

You can skip to the previous or next track using the “previous track” and “next track” commands respectively.

Choosing a track by entering the track number

You can select a track directly in CD/DVD mode using the “track number” or “track” command, directly followed by the corresponding number.

Choosing a disc using the disc list

The disc list contains all available CDs/DVDs.

▷ Activate voice control.

Beep

“Disc selection”.

“Disc selection”.

The disc list is displayed.

“Please say the number of the required disc”.

“Disc number 3”.

“Disc number 3”.

The PCM plays the corresponding CD/DVD.

The disc list is a non-voice-controlled list; to find out more about this please refer also to the section “Operating lists using voice control” on page 178.

Choosing a CD/DVD by entering the disc number

You can select a specific disc directly using the “Disc number” command, directly followed by the corresponding number.

Repeating a track

When this function is activated, the current track or chapter (video DVD mode) is repeated.
Activate and deactivate the repeat function using the “activate repeat” and “deactivate repeat” commands.

Switching the shuffle function on/off

When this function is activated, the PCM plays the tracks on the disc currently playing in random order.
Activate and deactivate the shuffle function using the “activate shuffle” and “deactivate shuffle” commands.

Scanning tracks

When this function is activated, the PCM plays a brief snippet of each track on the disc currently playing in sequence.
Start and stop the scan function using the “Start scan” and “Stop scan” commands.

Operating example for iPod mode

Calling up iPod mode

▷ Activate voice control.

Beep

“Disc iPod”.

“Disc iPod”.
The PCM switches to iPod mode.

Selecting a track from the track list

▷ Activate voice control.

Beep

"Track list".

"Track list".

The track list is displayed.

The iPod determines the sorting of the lists.

Selecting a track from the track list:

▷ Scroll through the list using the commands "scroll down" or "scroll up" until you find the track you want.

"Line number 3".

"Line 3".
The PCM plays the corresponding track.

Choosing a track by skipping

You can skip to the previous or next track using the "previous track" and "next track" commands respectively.

Choosing a track by entering the track number

You can select a track directly in iPod mode using the "track number" or "track" command, directly followed by the corresponding number.

Repeating a track

Activating this function repeats the current track. Activate and deactivate the repeat function using the "activate repeat" and "deactivate repeat" commands.

Switching the shuffle function on/off

When this function is activated, the PCM plays the tracks in the track list in random order.
Activate and deactivate the shuffle function using the "activate shuffle" and "deactivate shuffle" commands.

Searching for music

You can start a music search in iPod mode based on the following criteria:

– Artists,
– albums,
– track and
– music genres.

Below is an example of how to perform a search for the tracks of a specific artist.

▷ Activate voice control.

Beep

"Find music".

"Find music".

"Artists".

"Artists".

A list of all the artists whose tracks are stored on the iPod is displayed.

▷ Scroll through the list using the commands "scroll down" or "scroll up" until you find the track you want.

"Line number 3".

"Line 3".

"activate repeat".

The PCM plays the corresponding track.

Operating example for telephone mode

WARNING!

Injury hazard. In emergency situations, stress may cause your voice to change to an extent where it might take longer than normal to establish a telephone connection.

▷ Do not use the voice control system in cases of emergency.

Injury hazard. The telephone must not be used near explosives or flammable materials (e.g. at a petrol station) or near operations involving explosives.
Mobile phones must be switched off in certain hazardous areas such as near petrol stations, fuel depots, chemical plants and demolition work in progress using explosives, for example. They can interfere with technical equipment.

▷ Please heed appropriate warnings.

▷ Observe statutory regulations and local restrictions when using the telephone.

Calling up telephone mode

▷ Activate voice control.

Beep

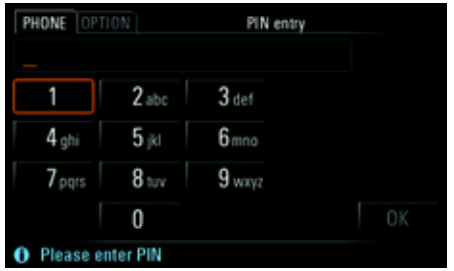
"Telephone".

"Telephone".
The PCM switches to telephone mode.

Entering the PIN

The digits "zero" to "nine" are permitted when entering the PIN. The following two options are available to you when saying the digits:

– Say all digits in a single block without a pause.
– Group and say the individual digits in blocks, for example the first three digits and then the next three digits. Leave a pause after each block and wait until the PCM has repeated the digits from the last block entered before saying the next block.



If you say the digits in blocks, you can use the "correction" command to delete the last block. The PCM then repeats the last correct block and you can continue with your input.
You can delete the complete entry using the "delete" command.

If you are saying all the digits without a pause, both these commands delete the complete entry.

▷ Activate voice control in the PIN input menu (see above).

"The PIN, please.".
Beep

"One two three four".

"One two three four".
Beep

"Ok".

"Checking the PIN".
The PCM switches to telephone mode if the entered PIN is correct.

Entering a telephone number

The digits "zero" to "nine" as well as the following words are permitted when entering the digits:

- "Star" for the * character
- "hash" for the # character
- "plus" for the + character

When calling international telephone numbers, use the word "plus" at the beginning of the number, followed by the country code. Then enter the local area code without the first digit, and then the telephone number.

The following two options are available to you when saying the telephone number:

- Say all digits in a single block without a pause.
- Say the telephone number in blocks, leaving a pause after each block and waiting until the PCM has repeated the digits from the last block entered before saying the next block.

If you say the telephone number in blocks, you can use the "correction" command to delete the last block. The PCM then repeats the last correct block and you can continue with your input.
The "delete" command deletes the complete entry.

If you are saying all the digits without a pause, both these commands delete the complete entry.

If you try to enter more than 32 digits, you will hear an announcement that the number is too long and that the last input has been deleted.

Example for an overseas call to Germany:

▷ Activate voice control.

Beep

"Dial number".

"Dial number."
Beep

"plus four nine".

"Plus four nine".
Beep

"Seven two four eight".

"Seven two four eight".
Beep

"Seven one zero".

"Seven one zero".
Beep

"Call number".

"Dialling the number."
The PCM dials the number.

i The "Dial number" command is a global command and therefore also works in other modes (e. g. navigation mode). You will find other global commands in the section "Global commands" on page 173.

Calling up the phonebook

▷ Activate voice control.

Beep

"Phonebook".

"Phonebook".

The phonebook is displayed as a list.

Calling a phonebook entry

▷ Scroll through the list using the commands “scroll down” or “scroll up” until you find the entry you want.
The following two options are available to you for making a call to an entry:

1. Say the “Call” command, directly followed by the name of the entry.
This option is global and also works outside the phonebook.
2. Say the command “line number”, directly followed by the corresponding number shown on the right end of the row.
This option is not global and only works within the phonebook. Furthermore, unlike option 1, it does not result in direct dialling of the telephone number.

If you are saying the name of a phonebook entry, please note the following:

- ▷ Say the name as normal, do not spell it out.
- ▷ If the name of a phonebook entry is in a language other than that currently set in the PCM, the voice control system may not recognise it correctly.

With phonebook entries with multiple numbers, the entry can also be directly selected by additionally speaking the category (e.g. “Mr. Smith Office”). If the specified category does not exist for this entry, the available categories are announced.

Example for option 1:

▷ Activate voice control.

Beep

“Call Information”.

“Dialing the number of Information.”
The PCM dials the number.

Example for option 2:

▷ Activate voice control.

Beep

“Line number 3”.

“Line 3”.

The details for the corresponding phonebook entry are displayed.

▷ Activate voice control.

Beep

“Call number”.

“Call number.”.
“Dialling the number.”.
The PCM dials the number.

Assigning a voice entry for an entry in the phonebook

The command “Change pronunciation” can be used to store speech entries for entries in the telephone book of your telephone. You can use these voice entries to make a call without having to enter the other person’s number.

To store a voice entry, you must first select an entry in the phonebook containing both a name and a telephone number.

▷ Activate voice control.

Beep

"Change pronunciation".

"Change pronunciation. Please say a name."
Beep

"Mr. Smith".

"Please say the name a second time."
Beep

"Mr. Smith".

"The pronunciation Mr. Smith has been stored."
The voice entry has been stored for the entry in the phonebook.

The command "delete pronunciation" is used to delete an existing speech entry.

List of previous calls

The "Previous calls" menu provides you access to a list of the telephone numbers you have recently dialled. You can select a list entry using voice control and call it again.

▷ Activate voice control.

Beep

"Previous calls".

"Previous calls".

The list of previous calls is displayed.

To find out how to select a list entry and make a call, please refer to the section "Calling a phonebook entry" on page 187.

List of received calls

The "Received calls" menu provides you access to a list of the calls you have recently received. You can select a list entry using voice control and call it back.

▷ Activate voice control.

Beep

"Received calls".

"Received calls".

The list of received calls is displayed.

To find out how to select a list entry and make a call, please refer to the section "Calling a phonebook entry" on page 187.

Reading out text messages (with PCM telephone only)

You can use the "read out messages" command to skip to the list of text messages and have the message headers read out.

▷ To have the contents of a text message that is highlighted in the list read out, say the "read out details" command.

▷ To have the contents of an open text message read out, say the "read out" command.

Operating example for navigation mode

Calling up navigation mode

▷ Activate voice control.

Beep

"Navigation".

"Navigation".
The PCM switches to navigation mode.

Entering an address and starting route guidance

If the language set in the PCM and the language spoken at the destination are the same, you can say the country, town, and street as whole words.

If the two languages are not the same, you must spell the town and the street. This applies to destinations in countries with more than one official language and to destinations in other countries.

If route guidance had previously been started, the country is already preset. In this case, the address entry starts with the prompt "Please say the town".
If you would like to set another country, you must start the dialogue with the "input country" command.

▷ Activate voice control.

Beep

"enter address".

"enter address".
"Please say the town".
Beep

"Stuttgart".

"Please say the street".
Beep

"Porschestraße".

If the named town and street were uniquely identified by the voice control system when entered for the first time, the next step is skipped and you can proceed directly to entry of the house number.

A list of towns and/or a list of streets is displayed if necessary.

"Please make your selection".
Beep

▷ Scroll through the list in this case using the commands "scroll down" or "scroll up" until you find the town you want.

"Line number 3".

If you are unable to find the destination you want in the town or street list, you can repeat your entry by selecting the "correction" command.

"Stuttgart, Porschestraße".
"Would you like to input a street number?"
Beep

"Yes".

"Please say the street number".
Beep

"One hundred and thirty two".

"One hundred and thirty two".
"Would you like to start route guidance?"
Beep

"Yes".
The PCM calculates the route.

If you want to start route guidance in the centre of a town, begin the dialogue with the "input town" command. Then select the town and respond to the request for the street by saying the "Start route guidance" command.

Entering a destination from the list of previous destinations or from the personal destination memory

The “Previous destinations” menu provides you access to a list of the last destinations to which you started route guidance.

In the “Stored destinations” menu you will find the destinations you have stored in your personal destination memory.

Both lists are voice-controlled lists, to find out more about this please refer also to the section “Operating lists using voice control” on page 178.
If you want to transfer a row to the voice control system by saying the contents, please note also the following:

– You can say all other row contents as they are displayed. If the voice control system has difficulty understanding the contents, we recommend saying the number of the respective row.
– Both lists can contain rows with geographical coordinates. Example: “8° 55’ 32” E 48° 51’ 5” N”. You cannot select these rows by saying their contents; you must say the row number.

▷ ▷ ▷

– You can store traces in the personal destination memory. When doing so, the PCM suggests a name. You cannot select rows with these default names by saying their contents.
If you name the trace yourself, however, you can select the row by saying its contents.
– If you know the name of the destination, you can start route guidance directly using the “go to destination ...*” command.

▷ Activate voice control.

Beep

“Previous destinations”.

“Previous destinations”.

- or -

“Stored destinations”.

“Stored destinations”.

The list of previous destinations or the personal destination memory is displayed.

▷ Scroll through the list using the commands “scroll down” or “scroll up” until you find the destination you want.
The following two options are available to you for starting route guidance to a destination:

1. Say the row contents shown on the display.
2. Say the “line number” command, directly followed by the corresponding number of the row, which shown at its right end.

Example for option 1:

▷ Activate voice control.

Beep

“Porschestraße”.

The details for the list entry are displayed.

▷ Activate voice control.

Beep

“Start route guidance”.

“Start route guidance”.
The PCM calculates the route to the destination.

Example for option 2:

▷ Activate voice control.

◀ Beep

🗣 "Line number 3".

◀ "Line 3".

▷ Activate voice control.

🗣 "Start route guidance".

◀ "Start route guidance".
The PCM calculates the route to the destination.

Searching for points of interest

The "POI" menu provides you with access to points of interest such as petrol stations, parking areas, restaurants, hotels or hospitals, for example.
The points of interest are divided into different categories to make them easier for you to find.

With the voice control system, you can select a point of interest by entering the category and subcategory as well as the search area.

Below you will see an example for entering a point of interest in the vicinity of the vehicle.

▷ Activate voice control.

◀ Beep

🗣 "POI".

◀ "POI".

The points of interest menu is displayed.

◀ "Please select the category".
Beep

The category list is displayed.
Scroll through the list using the commands "scroll down" or "scroll up" commands until you find the category you want.

The categories, like the subcategories also, can all be spoken.
You can, however, also say the number of the line containing the category you want. The row number is at the right of the row.

🗣 "Line number 5".

◀ "Line 5".

The subcategory list is displayed.

◀ "Please make your selection".
Beep

🗣 "Line number 3".

◀ "Line 3".
"Where would you like to search?".
Beep

You see the menu for the search areas. The entered subcategory or the entered marker is shown on the left beside the "Category" menu item.
You can now enter the search area in which the PCM is to search for points of interest.

🗣 "Vehicle surroundings".

◀ "Vehicle surroundings accepted.
Please select the destination".

A list containing the possible points of interest is displayed.

🗣 "Line number 3".

◀ "Line 3.
Would you like to start route guidance?".

🗣 "Yes".

The PCM calculates the route to the point of interest.

Searching for a point of interest with a known category and search area

You can shorten the input for a search for a point of interest by grouping the subcategory and search area in a single command, for example.

▷ Activate voice control.

Beep

"Point of interest golf course near destination".

The result list for the search is displayed.

"Please select the destination".
Beep

"Line number 3".

"Line 3.
Would you like to start route guidance?".

"Yes".

The PCM calculates the route to the point of interest.

Searching for a point of interest along a route

If route guidance is active, you can search the planned route for a point of interest using the "along route" command.

If route guidance is not active, you can instead search for a specific point of interest using the "in surroundings" command.

▷ Activate voice control.

Beep

"Search petrol station along route".

The result list for the search is displayed.

"Please select the destination".
Beep

"Line number 3".

"Line 3.
Would you like to start route guidance?".

"Yes".

Route guidance to the selected point of interest is started.

Announcing traffic messages on the route

This function is only available during active route guidance.

▷ Activate voice control.

Beep

"Read out traffic messages on route".

"Read out traffic messages on route".

The list of traffic messages on the route is displayed.

"A 8 direction... "
The list of traffic messages on the route is read out, beginning with the first entry.
The traffic message currently being read is highlighted.

You can also use the "read out details" command to read out the details of a traffic message as soon as it is highlighted in the list.

Operating example for map

Calling up the map view

▷ Activate voice control.

Beep

"Map".

"Map".
The PCM switches to the map view.

Setting the map scale

You can say all of the available map scales or display your total route on the map using the "total route" command.

Setting 3D display

If this function is activated, a three-dimensional map view is shown.
You can activate and deactivate the function using the “activate birds eye view” and “deactivate birds eye view” commands.

Displaying traffic messages

When this function is activated, traffic information is also shown in the map view.
Activate and deactivate the function using the “activate show traffic” and “deactivate show traffic” commands.

Setting autozoom

If you have activated this function, the entire current route section is displayed.
Activate and deactivate the function using the “activate autozoom” and “deactivate autozoom” commands.

Setting the map orientation

You can change the orientation of the map using the following commands:

– “activate north orientation”,
– “deactivate north orientation”,
– “show destination” and
– “show location”.

Repeating a navigation announcement

If you say the “guidance announcement” command during active route guidance, the last navigation announcement is repeated.

Index

A

AAC-LC 35
Accepting a call 58, 74
Activating alternative routes for route guidance 143
Activating the entry aid 137
Activating the interface 47, 48
Activating the rain sensor 136
Activating the rear wiper 137
Adapting the volume for an external audio source 47
Adding destinations to the personal destination memory 147
Alternative frequencies 25
Answer button 12
Area search 151
Assigning a key 123
Audio formats 35
Audio source
- Displaying detailed information 111
- Selecting 8

Automatic call answering 95
Automatic station search in radio mode 24
Automatic station search in TV mode 28
Autostore (radio) 24
Autostore (TV) 28
AUX 47
- Activating the interface 47
- Adapting the volume 47
- Switching to an external audio source 47

AUX BT 48
- Activating the interface 48
- Fast forward/reverse 49
- Repeating a track 49
- Shuffle function 49
- Skipping tracks 49
- Starting/stopping scanning 49
- Switching to an external Bluetooth® audio source . 48

Avoiding a stretch of road 155

B

Back button 11
Best FM 23
Best FM preset memory 23
Bluetooth® 54
- Adding a new device 50, 68, 97, 125, 133, 150
- Authorised devices 50, 67, 95, 125, 133, 150
- Calling up Bluetooth® settings 49, 124, 133, 149
- Connecting an authorised device with the PCM 50, 67, 95, 125, 133, 150
- Deleting an authorised device from the list 50, 67, 96, 125, 134, 150
- Deleting the list of authorised devices 50, 67, 96, 126, 134, 150
- Disconnecting an authorised and connected device from the PCM 67
- Displaying authorised devices 50, 67, 95, 125, 133, 150
- Displaying details for the authorised device .. 51, 68, 97, 126, 134, 150
- Establishing a connection from an external Bluetooth® device 50, 57, 69, 125, 133, 150
- Renaming an authorised device 50, 67, 96, 125, 133, 150
- Setting the profile of the authorised device 96
- Setting visibility 50, 69, 98, 125, 133, 150
- Settings (external Bluetooth® audio source) 49
- Settings (logbook) 124
- Settings (navigation) 149
- Settings (Sport display) 133
- Settings (telephone) 67, 95
- Switching Bluetooth® on/off 49, 125, 133, 149
- Switching on/off 56

Brightness of the display 19
Buttons 9

C

Call forwarding 93
Call settings 93
Call volume 66
Call waiting 64, 65, 81, 82, 94
- Accepting a call 64, 82
- Ending a connected call 64, 82
- Rejecting a call 64, 81

Calling
- Dialling a number 60, 75
- Number from the list of previous calls 61, 78
- Number from the list of received calls 62, 79
- Phonebook entry 61, 76

Calling a destination from the personal destination memory 148
Calling the destination 146
Cancelling a block 154
Cancelling a detour 154
CD/DVD
- Calling up the CD/DVD changer menu 36
- Calling up the main menu 37
- Ejecting a CD/DVD (with CD/DVD changer) 36
- Ejecting a CD/DVD (with CD/DVD drive) 36
- Ejecting all CD/DVDs (with CD/DVD changer) 37
- Fast forward/reverse 39
- Loading a CD/DVD (with CD/DVD changer) 36
- Loading a CD/DVD (with CD/DVD drive) 36
- Loading all CDs/DVDs (with empty CD/DVD changer) 36
- Naming a CD 38
- Repeating a track 39
- Searching for a track (MP3 CD) 39
- Searching for music (MP3 CD) 39
- Selecting a CD/DVD 37
- Selecting a chapter in video DVD mode 38
- Selecting a track 37
- Selecting a track (MP3 CD) 37
- Setting DVD audio groups 38
- Setting the DVD audio format 38
- Setting the mode 37
- Skipping to the next track 39

Starting/stopping scanning ... 39
Switching the shuffle function on/off ... 39
Changing the PIN ... 92
Colour (TV) ... 32
Conducting calls with the hands-free unit ... 58, 73
Conference ... 65, 82
Configuring the display ... 18
Contrast ... 32
Controls ... 9
Copyright ... 34
Cordless handset ... 101
Accepting a call ... 102
Call waiting (swapping) and conference ... 103
Charging ... 101
Dialling a number ... 102
Ending a call ... 102
Establishing an additional call ... 102
Muting the microphone ... 102
Phonebook ... 104
Rejecting a call ... 102
Settings ... 107
Switching on/off ... 101
Text messages (SMS) ... 105
Creating a template for SMS ... 90

D

Deleting ... 11
Authorised
Bluetooth device ... 50, 67, 96, 125, 134, 150
Contact person (logbook) ... 123
Contents of the SIM card ... 77
Destination (list of previous destinations) ... 145
Destinations from the personal
destination memory ... 148
Driver (logbook) ... 123
Key assignment in the logbook ... 123
Lap in the Sport display recording ... 130
List of authorised
Bluetooth devices ... 50, 67, 96, 126, 134, 150
Phonebook entry ... 77
Recording in the Sport display ... 130
Reference lap for the Sport display ... 131
Stopovers ... 157
Telephone number ... 61, 62, 78, 79
Text message (SMS) ... 87
Trip destination (logbook) ... 123
Trip purpose (logbook) ... 123
Trips in the logbook ... 123
vCards ... 89
Deleting a destination (list of previous destinations) ... 145
Deleting a destination (personal destination memory) ... 148
Deleting a lap (Sport display) ... 130
Deleting characters ... 11
Deleting entered characters ... 11
Destination input using geographical coordinates ... 158
Destination input using the map ... 158
Dialling a number (telephone) ... 60, 75
Direct dialling ... 60, 75
Display ... 12
Cleaning ... 7
Colour touchscreen ... 12
Faults ... 7
Operating ... 12
Switching back on ... 18
Switching off ... 18
Display faults ... 7
Displaying destination/location ... 167
Displaying detailed information about the audio source ... 111
Displaying driving instructions in the map view ... 170
Displaying route sections ... 111
Displaying sections of the route ... 168
Displaying speed limits in the map display ... 169
Displaying the footer in the map view ... 170
Displaying the north arrow in the map view ... 170
Displaying the satellite image in the map view ... 169
Displaying the system version ... 19
Displaying the total route in the map ... 167
Displaying traffic messages (TMC) ... 109
Displaying traffic messages in the map view ... 170
Dolby® Digital ... 35
DTMF tones ... 63, 80
DTS ... 35

E

Editing
Address of a destination
(list of previous destinations) ... 145
Address of a destination
(personal destination memory) ... 147
Data from the current trip (logbook) ... 120
Destination name of a personal destination ... 148
Phonebook entry ... 77
Editing an address (list of previous destinations) ... 145
Editing an address (personal destination memory) ... 147
Ejecting a CD ... 11
Ejecting a DVD ... 11
Ejecting CDs/DVDs ... 36
Electronic Programme Guide (EPG) ... 30
Emergency call ... 83
End call button ... 11
Ending a call ... 59, 74
Ending a lap (Sport display) ... 129
Entering a name ... 14
Entering a space ... 14
Entering an address ... 141
Entering an address (list of previous destinations) ... 145
Entering an address (personal destination memory) ... 147
Entering the country ... 142
Entering the junction ... 143
Entering the postal code ... 142
Entering the street ... 142
Entering the street number ... 142
Entering the town ... 142
Establishing an additional call ... 63, 81
Extended memory ... 135
External audio source (AUX) ... 47
Activating the interface ... 47
Switching to an external audio source ... 47
External Bluetooth® audio source
Activating the interface ... 48
Switching to an external Bluetooth® audio source ... 48
External Bluetooth® audio source (AUX BT) ... 48

F

Fast forward/reverse ... 39, 42, 46, 49
Finding the cordless handset ... 98
Format ... 32
Forward/reverse
AUX BT ... 49
CD/DVD ... 39
iPod ... 42
USB ... 46
Frequency entry ... 23

G

Geographical coordinates ... 158
GPS antenna ... 140

H

Help function for the voice control system ... 177
Holding a call (telephone) ... 60, 76

I

IMEI ... 92
Individual settings (extended memory) ... 135
Input menu
- Operating input menus ... 14
- Setting the layout ... 15

Interface
- AUX ... 47
- iPod ... 40
- USB ... 43

iPod ... 40
- Calling up the main menu ... 40
- Fast forward/reverse ... 42
- Playlists ... 41
- Repeating a track ... 42
- Searching for a track ... 40
- Shuffle function ... 42
- Skipping to the next track ... 42
- Switching to iPod mode ... 40
- Track list ... 42

iPod interface ... 40

J

Jack for iPod ... 40

L

Landmark navigation ... 160
Left rotary knob ... 10
Lift handset button ... 12
List of previous calls ... 61, 78
- Adding to a number ... 62, 79
- Calling a number ... 61, 78
- Deleting a number ... 61, 78
- Displaying the list ... 61, 78
- Sending a message to a number from the list ... 78
- Storing a number in the phonebook ... 78

List of previous destinations ... 144
List of received calls ... 62, 79
- Adding to a number from the list ... 63, 80
- Calling a number from the list ... 62, 79
- Deleting a number from the list ... 62, 79
- Displaying the list ... 62, 79
- Sending a message to a number from the list ... 80
- Storing a number from the list in the phonebook ... 79

Lists
- Operating using voice control ... 178
- Showing the first letters of the entries ... 13

Loading a disc ... 36
Loading CDs/DVDs ... 36
Location information ... 111
Logbook ... 119
- Activating/deactivating ... 119
- Activating/deactivating the reminder ... 119
- Assigning a key ... 123
- Changing the contact person ... 121
- Changing the driver ... 120
- Changing the remarks ... 121
- Changing the trip destination ... 120
- Changing the trip purpose ... 121
- Changing the trip type ... 120
- Continuing recording ... 121
- Creating a contact person ... 122
- Creating a driver ... 122
- Creating a new contact person ... 121
- Creating a new driver ... 120
- Creating a new trip destination ... 120
- Creating a new trip purpose ... 121
- Creating a trip destination ... 122
- Creating a trip purpose ... 122
- Deleting a contact person ... 123
- Deleting a driver ... 123
- Deleting a key assignment ... 123
- Deleting a trip destination ... 123
- Deleting a trip purpose ... 123
- Deleting trips ... 123
- Editing data from the current trip ... 120
- Managing lists ... 122
- Renaming a contact person ... 122
- Renaming a driver ... 122
- Renaming a trip destination ... 122
- Renaming a trip purpose ... 122
- Setting the standard trip ... 119
- Storing a refuelling stop ... 122
- Transferring data ... 124
- Viewing the list of stored trips ... 122

Lowering the exterior mirror ... 137

M

Making a detour around a route section ... 153
Manual frequency entry ... 23
MAP ... 166
- Adapting the map view ... 169
- Changing the scale ... 166
- Display of the total route ... 167
- Displaying a 3D terrain model ... 169
- Displaying a 3D town model ... 169
- Displaying destination/location ... 167
- Displaying driving instructions in the map view ... 170
- Displaying sections of the route ... 168
- Displaying the footer ... 170
- Displaying the map menu ... 170
- Displaying the north arrow ... 170
- Displaying the satellite image ... 169
- Displaying traffic messages ... 170
- Moving ... 166
- Orienting the map to the north ... 170
- Selecting display of the arrival time ... 170
- Setting 3D display ... 166
- Setting 3D points of interest ... 169
- Setting a 3D map ... 169
- Setting autozoom ... 167
- Setting display of the arrival time ... 170
- Setting the colours for the map ... 170
- Setting the display layout ... 168
- Setting the display of speed limits ... 169
- Setting the junction zoom ... 169

Memory buttons ... 22
Meridian Lossless Packing ... 35
Microphone volume ... 66
MIXED ... 23
MIXED preset memory ... 23

MP3 35
MP3 CD
Searching for a track 39
Searching for music 39
Selecting a track 37
Muting (audio source) 8
Muting (telephone) 58, 73
Muting the microphone (telephone) 58, 73

N

Navigation
Activating alternative routes 143
Adding destinations (personal destination memory) 147
Area search 151
Avoiding a stretch of road 155
Calling a destination from the personal destination memory 148
Calling the destination 146
Deleting a destination 145, 148
Destination input using geographical coordinates 158
Destination input using the map 158
Displaying the location of a destination (list of previous destinations) 145
Displaying the location of a destination (personal destination memory) 147
Editing an address (list of previous destinations) 145
Editing an address (personal destination memory) 147
Editing the name of a personal destination 148
Entering an address 141
Entering an address from the list of previous destinations 145
Entering an address from the personal destination memory 147
Entering the country 142
Entering the junction 143
Entering the street and number 142
Entering the town/postal code 142
Entering/editing a telephone number for a destination in the personal destination memory 148
General operation 140
List of previous destinations 144
Personal destination memory 146
Points of interest 151
Reloading data 164
Safety notice 141
Sending a destination from the personal destination memory 149
Setting a detour 153
Setting the volume of the announcement 141
Starting route guidance 143
Starting route guidance with route alternatives activated 143
Stopovers 155
Stopping route guidance 143
Storing a destination (off-road navigation) 158
Storing a destination from the list of previous destinations in the personal destination memory 145
Storing a position (off-road navigation) 159
Network selection 91

O

Off-road navigation 159
Activating/deactivating 160
Landmark navigation 160
Recording a trip section (trace) 161
Safety notice 160
Storing a destination 158
Storing a position 159
Tracing a route 163
Opening the CD/DVD changer menu 11
Opening the changer menu 11
Opening the rear blind automatically 137
Operating 9
Operating lever for the on-board computer 175
Options for route guidance 153
Orienting the map to the north 170

P

ParkAssist 114
Closing the display 115
Switching the display on/off 115
Parking with the rear view camera display 117
Performing voice adaptation for the voice control system 177
Personal destinations 146
Personal Identification Number (PIN) 73
Personal trip data 113
Phonebook 60, 76
Calling an entry 61, 76
Creating and storing an entry 76
Deleting an entry 77
Deleting the contents of the SIM card 77
Deleting the phonebook 71, 100
Editing an entry 77
Sending a vCard 61, 77
Setting automatic transfer 70, 99
Setting sorting 70, 99
Setting the storage location 70, 98
Settings 70
Transferring 71, 100
Transferring the phonebook entries manually 71
Picture format 32
Picture settings for TV mode 31
PIN 73
Pin Unblocking Key (PUK) 73
Playlists (iPod) 41
Points of interest 151
Searching by category 151
Searching by name 152
Searching by telephone number 152
Searching in the map view 152
Previous calls 61, 78
Previous destinations (navigation) 144
PTY filter 26
PUK 73

R

Radio 22
PTY filter 26
RDS 25
Setting the mode 22
Storing stations on station buttons 23
Traffic programme 24
Tuning to stations 22
RDS 25
Switching radio text on/off 25
Switching RDS on/off 25
Switching regionalisation on or off 25
Rear view camera 116
Parking with the display 117
Picture settings 117
Switching on grid lines 117

Switching the display on/off ... 116
Received calls ... 62, 79
Recording (Sport display)
Continuing ... 128
Deleting ... 130
Evaluating ... 129
Renaming ... 130
Starting ... 127
Stopping ... 128
Recording a trip section (trace) ... 161
Recording laps (Sport display) ... 127
Redialling ... 60, 75, 95
Reference lap (Sport display)
Defining ... 131
Deleting ... 131
Renaming ... 131
Resetting ... 131
Regional code ... 35
Rejecting a call ... 59, 75
Reloading data ... 164
Reloading navigation data ... 164
Renaming
Contact person (logbook) ... 122
Driver (logbook) ... 122
Recording (Sport display) ... 130
Reference lap (Sport display) ... 131
Trip destination (logbook) ... 122
Trip purpose (logbook) ... 122
Repeating (track) ... 39
Repeating a track
AUX BT ... 49
CD/DVD ... 39
iPod ... 42
USB ... 46
Resetting personal settings ... 20
Resetting settings ... 20
Resetting trip data ... 114
Restoring factory settings ... 20
Restoring vehicle handover settings ... 20
Right rotary knob ... 11
Ringtone type ... 66, 91
Ringtone volume ... 66, 91
Route
Displaying sections ... 111
Route alternatives ... 143

S

Safety notice (navigation) ... 141
Scanning (radio mode) ... 23
Searching for a track
iPod ... 40
MP3 CD ... 39
USB ... 44
Searching for music
MP3 CD ... 39
USB ... 44
Sections of the route ... 111
Selecting a chapter (video DVD mode) ... 38
Selecting a track
CD/DVD ... 37
MP3 CD ... 37
Selecting display of the arrival time in the map view ... 170
Sending a destination from the personal destination memory ... 149
Sending own number ... 95
Setting
3D map display ... 166
Adaptation of the central vents ... 138
Air flow strength ... 138
AudioPilot ... 16
Automatic air circulation ... 138
Automatic call answering ... 95
Balance ... 15
Bass ... 15
Brightness (rear view camera) ... 117
Brightness (TV) ... 31
Brightness of the display ... 19
Call forwarding ... 93
Cancelling a detour ... 154
Colour (rear view camera) ... 118
Colour (TV) ... 32
Colours for the display ... 18
Comfort options ... 137
Contents of the personal display ... 113
Contrast (rear view camera) ... 118
Contrast (TV) ... 32
Day design ... 18
Daytime running lights ... 135
Display ... 18
Display layout in the map view ... 168
Displaying the total route in the map display ... 167
DVD audio format ... 38
DVD audio groups ... 38
Dynamic route planning ... 154
Entry aid ... 137
Fade-out time ... 135
Fade-out time for the interior lights ... 136
Fader ... 15
Fast/short route ... 154
Folding in of the exterior mirrors ... 137
Headlight alignment (driving on left/right) ... 136
Keyboard layout ... 15
Language ... 19
Language for voice control ... 175
Layout of the input menu ... 15
Layout of the letters on the keyboard in the input menu ... 15
Light options ... 135
Loudness ... 16, 17
Lowering of the exterior mirror ... 137
Making a detour around a section ... 153
Mode (AUX BT) ... 48
Mode (AUX) ... 47
Mode (CD/DVD) ... 37
Mode (iPod) ... 40
Mode (radio) ... 22
Mode (TV) ... 27
Mode (USB) ... 44
Night design ... 18
Opening of the rear blind ... 137
Options for air conditioning ... 137
Orientation light ... 136
Preset memory ... 23
Rain sensor ... 136
Rear wiper ... 137
Reception country (TV) ... 31
Ringtone type ... 91
Ringtone volume ... 91
SDV (speed-dependent volume) ... 16
Sorting criteria for the station list ... 26
Sorting of the station list (TV) ... 31
Sound conditioner ... 16
Station (radio) ... 22
Station (TV) ... 27
Surround ... 16, 17
Switching the touchscreen on/off ... 19
Treble ... 15

Units ... 18, 19
Use of the upper ventilation zone ... 138
Volume ... 8
Volume of the navigation announcement ... 141
Volume of the traffic programme announcements ... 25
Wiper options ... 136
Setting a block for a route section ... 153
Setting a detour ... 153
Setting a fast/quick route ... 154
Setting a perspective map ... 169
Setting a short route ... 154
Setting adaptation of the central vents ... 138
Setting AM mode ... 22
Setting AudioPilot ... 16
Setting automatic air circulation ... 138
Setting automatic transfer of the phonebook ... 99
Setting autozoom ... 167
Setting colours for the display ... 18
Setting comfort options ... 137
Setting consumption ... 20
Setting dynamic route planning (TMC) ... 154
Setting filtering of background noise ... 16
Setting FM mode ... 22
Setting folding in of the exterior mirrors ... 137
Setting light options ... 135
Setting picture parameters (rear view camera)
Brightness ... 117
Colour ... 118
Contrast ... 118
Setting picture parameters (TV)
Brightness ... 31
Colour ... 32
Contrast ... 32
Format ... 32
Setting ringtones ... 91
Setting SDV (speed-dependent volume) ... 16
Setting sound conditioner ... 16
Setting surround ... 16, 17
Setting the air conditioning ... 137
Setting the air flow strength ... 138
Setting the audio source ... 8
Setting the balance ... 15
Setting the bass ... 15
Setting the brightness (TV mode) ... 31
Setting the colours for the map ... 170
Setting the day design ... 18
Setting the daytime running lights ... 135
Setting the display layout ... 168
Setting the display of 3D points of interest ... 169
Setting the display of additional data (Sport display) ... 132
Setting the display of speed limits ... 169
Setting the fade-out time ... 135
Setting the fade-out time for the interior lights ... 136
Setting the fader ... 15
Setting the headlight alignment (driving on left/right) ... 136
Setting the junction zoom in the map view ... 169
Setting the keyboard layout ... 15
Setting the language ... 19
Setting the layout of the letters on the keyboard in the input menu ... 15
Setting the loudness ... 16, 17
Setting the mode (CD/DVD) ... 37
Setting the night design ... 18
Setting the orientation light ... 136
Setting the preset memory in radio mode ... 23
Setting the reception country for TV mode ... 31
Setting the standard trip for the logbook ... 119
Setting the temperature display ... 20
Setting the treble ... 15
Setting the units ... 18, 19
Setting the volume ... 8
Setting the volume for a voice control system announcement ... 175
Setting transfer of your own number ... 95
Setting TV mode ... 22
Setting use of the upper ventilation zone ... 138
Setting wiper options ... 136
Settings
Bluetooth® (external Bluetooth® audio source) ... 49
Bluetooth® (logbook) ... 124
Bluetooth® (navigation) ... 149
Bluetooth® (Sport display) ... 133
Bluetooth® (telephone) ... 67, 95
Calls ... 93
Display ... 18
Extended memory ... 135
Messages and data ... 100
Phonebook ... 70, 98
Picture settings (rear view camera) ... 117
Picture settings (TV) ... 31
Radio mode ... 25
SIM card ... 92
Telephone (PCM telephone) ... 91
Telephone settings ... 66
Shuffle function
AUX BT ... 49
CD/DVD ... 39
iPod ... 42
USB ... 46
SIM card
Deleting the contents ... 77
Inserting the card ... 72
SIM settings ... 92
SIM slot ... 10
Skipping a track (CD/DVD, USB or iPod mode) ... 10
Skipping tracks
AUX BT ... 49
CD/DVD ... 39
iPod ... 42
USB ... 46
Slot for the SIM card ... 10
SMS ... 83
Accepting vCards ... 88
Calling telephone numbers ... 89
Creating a template ... 90
Creating and sending a new text message ... 85
Creating using a text template ... 86
Creating with attached reply ... 85
Creating with new text ... 84, 86
Deleting ... 87
Deleting vCards ... 89
Discarding vCards ... 89
Displaying the complete text ... 90
Editing and sending the text of the last message ... 86
Editing vCards ... 88
Forwarding ... 87
Numbers in text messages ... 89
Reading ... 84
Reading a vCard ... 87
Replying ... 84
Replying using a text template ... 85
Replying with Yes or No ... 85
Storing coordinates ... 90
Storing telephone numbers ... 89
Using coordinates for route guidance ... 90
SMS service centre ... 100
SMS settings ... 100
SMS signal tone ... 100

Sound settings
Setting AudioPilot ... 16
Setting SDV ... 16
Setting sound conditioner ... 16
Setting surround ... 16, 17
Setting the balance ... 15
Setting the bass ... 15
Setting the fader ... 15
Setting the loudness ... 16, 17
Setting the treble ... 15
Sport Chrono package ... 127
Sport display ... 127
Continuing recording ... 128
Defining the reference lap ... 131
Deleting a lap ... 130
Deleting a recording ... 130
Deleting the reference lap ... 131
Ending a lap ... 129
Evaluating a recording ... 129
Renaming a recording ... 130
Renaming the reference lap ... 131
Resetting the defined reference lap ... 131
Setting the display of additional data ... 132
Starting a new lap ... 129
Starting recording ... 127
Stopping recording ... 128
Storing a lap as the reference lap ... 131
Timing the interval ... 129
Transferring data ... 132
Stalk for direction indicators, high beam and headlight flasher ... 175
Starting a new lap (Sport display) ... 129
Starting a search (radio or TV mode) ... 10
Starting route guidance ... 143
Starting/stopping scanning
AUX BT ... 49
CD/DVD ... 39
USB ... 46
Station buttons ... 22, 23, 27
Station list ... 22, 24
PTY filter (programme type) ... 26
Setting sorting (TV) ... 31
Setting sorting criteria ... 26
Station search ... 22
Status of the call diversion ... 94
Stopovers ... 155
Deleting ... 157
Entering ... 155
Reorganising ... 157
Storing ... 157
Via destinations ... 156
Stopping route guidance ... 143
Storing
Coordinates (vehicle position) ... 90
Destination (off-road navigation) ... 158
Destination from the list of previous destinations in the personal destination memory ... 145
Key assignment in the logbook ... 123
Lap as reference lap ... 131
Phonebook entry ... 76
Position ... 159
Refuelling stop (logbook) ... 122
Station (radio) ... 23
Station (TV) ... 28
Telephone number ... 78, 79
Telephone numbers from a text message ... 89
Storing a destination ... 145, 158
Storing a lap as the reference lap (Sport display) ... 131
Storing a position (off-road navigation) ... 159
Storing stations ... 23, 28
Choosing a station in the station list and storing it ... 24
Storing stations manually ... 24
Storing stations manually (TV) ... 28
Storing via an automatic station search (radio) ... 24
Storing via an automatic station search (TV) ... 28
Storing TV stations ... 28
Supplementary services ... 83
Supported audio formats ... 35
Switching
Switching to an external audio source ... 47
Switching to an external Bluetooth® audio source ... 48
Switching to radio mode ... 22
Switching between day/night ... 18, 170
Switching between main menus ... 12
Switching device on/off ... 7
Switching grid lines for the rear view camera on ... 117
Switching on/off ... 7
RDS ... 25
Switching the touchscreen on/off ... 19

T

Telephone
Accepting a call ... 58, 74
Automatic call answering ... 95
Bluetooth® ... 54
Call waiting ... 64, 81
Call waiting (swapping) and conference ... 65, 82
Calling a phonebook entry ... 61, 76
Changing the PIN ... 92
Conducting calls with the hands-free unit ... 58, 73
Dialling a number ... 60, 75
Direct dialling ... 60, 75
Displaying the IMEI ... 92
Displaying the phonebook ... 60, 76
Ending a call ... 59, 74
Entering the PIN ... 73
Entering the PUK ... 73
Establishing an additional call ... 63, 81
Holding a call ... 60, 76
Inserting the SIM card ... 72
List of previous calls ... 61, 78
List of received calls ... 62, 79
Making an emergency call ... 83
Muting the microphone ... 58, 73
Number of the SMS service centre ... 100
Redialling ... 60, 75
Rejecting a call ... 59, 75
Selecting a network ... 91
Setting call forwarding ... 93
Setting the call volume ... 66
Setting the microphone volume ... 66
Setting the redial function ... 95
Setting the ringtone type ... 66, 91
Setting the ringtone volume ... 66, 91
Setting transfer of your own number ... 95
Settings (PCM telephone) ... 91
SMS settings ... 100
Supplementary services ... 83
Switching call waiting on/off ... 94
Switching on/off ... 91
Switching the PIN prompt on and off ... 93
Switching the SMS signal tone on/off ... 100
Text messages (SMS) ... 83
Touch tone dialling (DTMF tones) ... 63, 80
Using a stored PIN ... 93

Telephone conference 65, 82
Text message (SMS) 83
Accepting vCards 88
Calling telephone numbers 89
Creating a template 90
Creating and sending a new text message 85
Creating using a text template 86
Creating with attached reply 85
Creating with new text 84, 86
Deleting 87
Deleting vCards 89
Discarding vCards 89
Displaying the complete text 90
Editing and sending the text of the last message 86
Editing vCards 88
Forwarding 87
Numbers in text messages 89
Reading 84
Reading a vCard 87
Replying 84
Replying using a text template 85
Replying with Yes or No 85
Storing coordinates 90
Storing telephone numbers 89
Using coordinates for route guidance 90
Timing the interval (Sport display) 129
TMC messages 109
Touch tone dialling 63, 80
TP (traffic programme) 24
Tracing 161, 163
Tracing a route 163
Track list
iPod 42
USB 46
Traffic Message Channel 109
Traffic messages (TP) 24
Traffic programme
Activating traffic programme announcements 24
Setting the volume of the announcements 25
Transferring data (logbook) 124
Transferring data (Sport display) 132
Trip data 113
Tuner 22
Tuning to stations
Tuning to stations by entering the frequency manually 23
Tuning to stations using the station buttons 22
Tuning to stations using the station buttons (TV) 27
Tuning to stations using the station list 22
Tuning to stations via a station search 22
Tuning to stations via a station search with scanning 23
Tuning to stations (TV)
Displaying the TV picture 27
Tuning to TV stations 27
TV
Calling up the main menu 27
Electronic Programme Guide (EPG) 30
Setting picture parameters 31
Setting sorting of the station list 31
Setting the reception country 31
Setting TV mode 27
Storing TV stations 28
Tuning to TV stations 27
Video text 29
Twin SIM cards 72

U

Undoing a menu selection 11
USB 43
Fast forward/reverse 46
Repeating a track 46
Searching for a track 44
Searching for music 44
Shuffle function 46
Skipping to the next track 46
Starting/stopping scanning 46
Switching to USB mode 44
Track list 46
USB interface of the PCM 43
Using geographical coordinates from an SMS for route guidance 90

V

vCard
Accepting 88
Discarding (deleting) 89
Editing 88
Sending 61, 77
Vehicle functions
Adaptation of the central vents 138
Air flow strength 138
Automatic air circulation 138
Comfort options 137
Daytime running lights 135
Entry aid 137
Fade-out time 135
Fade-out time for the interior lights 136
Folding in the exterior mirrors 137
Headlight alignment (driving on left/right) 136
Light options 135
Lowering the exterior mirror 137
Opening the rear blind 137
Options for air conditioning 137
Orientation light 136
Rain sensor 136
Rear wiper 137
Use of the upper ventilation zone 138
Wiper options 136
Video text 29
Calling up video text 29
Placing video text over the TV picture 30
Selecting a video text page 29
Voice control 172
Activating 175
Commands 173
Deactivating 175
Emergency cases 185
Hands-free microphone 172
Operating example for CD/DVD mode 182
Operating example for navigation mode 189
Operating example for radio mode 179
Operating example for telephone mode 185
Operating lists 178

Performing voice adaptation 177
Setting quick dialogue 176
Setting repetition of commands 176
Setting the display of hints 176
Setting the language 175
Setting the volume of the announcement 175
Speech intelligibility 172
Symbols 175
Using the help function 177
Voice entries 174
Voice control commands
Global commands 173
Local commands 173
Volume of the navigation announcement 141

W

WAV 35
WMA 35

Radio frequency ranges

VHF (FM): 87.5 - 108 MHz
(manual tuning in 100 KHz increments)

MW (AM): 531 - 1602 KHz
(manual tuning in 1 KHz increments)

Tuning steps used during automatic station search

VHF (FM) 100 KHz

MW (AM) 9 kHz

Regional codes for video DVDs

Code 1: USA, Canada and US territories

Code 2: Europe, Greenland, South Africa, Egypt and Middle East, Japan

Code 3: Southeast Asia, South Korea, Hong Kong, Indonesia, Philippines, Taiwan

Code 4: Australia, New Zealand, Mexico, Central America, South America

Code 5: Russia and other countries of former USSR, Eastern Europe India, Africa

Code 6: People's Republic of China

Code 7: Not currently assigned

Code 8: International territory such as cruise liners and airplanes

Affiliated countries for TV tuner country settings

Africa: Egypt
Egypt

Africa: Morocco
Morocco

Africa: North, South East Africa
Algeria, Equatorial Guinea, Ethiopia, Eritrea, Gambia, Ghana, Cameroon, Canary Islands, Cape Verde, Kenya, Comoros, Liberia, Libya, Madeira, Malawi, Mauritania, Mauritius, Mayotte, Mozambique, Nepal, Nigeria, Sahara, Zambia, São Tomé and Príncipe, Seychelles

Africa: Southern Africa
Angola, Botswana, Lesotho, Namibia, South Africa, Tanzania, Sierra Leone, Zimbabwe, Somalia, Sudan, Swaziland, Tunisia, Uganda, other African countries, other Far Eastern countries, other overseas countries

Africa: Central Africa, Madagascar
Benin, Burkina Faso, Burundi, Ivory Coast, Democratic Republic of Congo, Djibouti, Gabon, Guinea, Guinea-Bissau, Congo, Madagascar, Mali, Niger, Réunion, Rwanda, Senegal, Togo, Chad, Central African Republic

America: Falkland Islands
Falkland Islands

America: French overseas departments
French Guyana, Guadeloupe, Martinique, New Caledonia

America: Caribbean
United States Virgin Islands, Antigua and Barbuda, Aruba, Bahamas, Barbados, British Virgin Islands, Curaçao (Netherlands Antilles), Dominica, Dominican Republic, Grenada, Haiti, Jamaica, Cayman Islands, Cuba, Netherlands Antilles, Puerto Rico, St. Lucia, St. Martin (Netherlands Antilles), St. Pierre and Miquelon, St. Vincent and the Grenadines, Trinidad and Tobago, Turks and Caicos Islands

America: Central America
Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, other Latin American countries

America: North America
Bermuda, Canada, United States of America (USA), other American countries

America: South America
Argentina, Bolivia, Brazil, Chile, Ecuador, Guyana, Columbia, Paraguay, Peru, Surinam, Uruguay, Venezuela

Asia: Brunei
Brunei Darussalam

Asia: China
China

Asia: Hong Kong
Hong Kong

Asia: India
India

Asia: Japan
Japan

Asia: Kuwait
Kuwait

Asia: Malaysia
Malaysia

Asia: Central Asia, Mongolia, Bhutan
Bhutan, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan, Turkmenistan, Uzbekistan

Asia: Myanmar
Myanmar (Burma)

Asia: Middle East, Afghanistan
Afghanistan, Gaza Strip, Iraq, Iran, Israel, Yemen, Jordan, Lebanon, Qatar, Syria, Cyprus, other Middle and Near Eastern countries

Asia: North Korea
Democratic People's Republic of Korea

Asia: Oman
Oman

Asia: Philippines
Philippines

Asia: Saudi Arabia
Saudi Arabia

Asia: Singapore
Singapore

Asia: South Asia
Bangladesh, Indonesia, Cambodia, Laos, Macau, Maldives, Pakistan, Sri Lanka, West Indies, other Asian countries

Asia: South Korea
Republic of Korea

Asia: Taiwan
Taiwan

Asia: Thailand
Thailand

Asia: United Arab Emirates
Abu Dhabi, Bahrain, Dubai, United Arab Emirates

Asia: Vietnam
Vietnam

Australia
Australia, Australia/Oceania, Tuvalu, Vanuatu

Australia: New Zealand
New Zealand, New Zealand/Oceania, Pitcairn Island, Solomon Islands

Europe: England, Ireland
British Indian Ocean Territory, Great Britain, Ireland

Europe: Finland
Finland

Europe: France, Monaco
France, Monaco

Europe: Northern, Central, Southern, South Eastern Europe
Albania, Andorra, Azores, Belgium, Bosnia and Herzegovina, Bulgaria, Ceuta/Melilla, Denmark, Germany, Faroe Islands, Gibraltar, Greece, Greenland, Iceland, Italy, Federal Republic of Yugoslavia, Croatia, Luxembourg, Madeira, Malta, Macedonia, Montenegro, Netherlands, Norway, Austria, Portugal, Romania, Sweden, Switzerland, Slovenia, Spain, St. Helena, Turkey, Vatican City, other Western Europe countries

Europe: Eastern Europe
Armenia, Azerbaijan, Estonia, Georgia, Latvia, Lithuania, Moldavia, rest of the former USSR, Russian Federation, Ukraine, Hungary, Belarus, other Eastern European countries, other Comecon countries

Europe: Poland, Slovakia, Czech Republic
Poland, Slovakia, Czech Republic

Pacific
Fiji, French Polynesia, Kiribati , Marshall Islands, Micronesia (Federated States), Nauru, Oceania, Papua New Guinea, Samoa, Tonga, Wallis and Futuna

– "Other countries" means countries in this region not explicitly mentioned in the list
– Spelling of country names subject to correction

Dear Customer,

In conformance with current EC guidelines, any person may operate this unit. This unit conforms to the current valid European or harmonised national standards.

It is guaranteed that the unit conforms to the currently applicable specifications regarding electromagnetic compatibility. Interference with other electrical/electronic devices caused by the unit, or interference with this unit caused by other electrical/electronic devices, is largely prevented.

Harman/Becker Automotive Systems declares herewith that this device, **PCM 3.1**, conforms to the basic requirements of applicable EC regulations and especially
to the basic requirements and other relevant regulations of the R&TTE directive 1999/5/EC.

Further information is available on our Internet site
http://www.HarmanBecker.com/Porsche.

CE 0700 !

List of countries with

GSM and Bluetooth approval (extract)

Albania	Finland	Lithuania	Russia
Andorra	France	Luxembourg	Serbia
Austria	Georgia	Macedonia	Slovakia
Belgium	Germany	Malta	Slovenia
Bosnia Herzegovina	Greece	Moldova	Spain
Bulgaria	Guernsey	Monaco	Sweden
Canada	Hungary	Montenegro	Switzerland
China	Iceland	Netherlands	Turkey
Croatia	Ireland	Norway	United Kingdom
Cyprus	Isle of Man	Poland	USA
Czech Republic	Italy	Portugal	
Denmark	Jersey	Romania	
Estonia	Latvia	Reunion	

Further information is available on our Internet site http://www.HarmanBecker.com/Porsche.

Bluetooth approval

QDID: B015165

Information on the laser equipment

At the date of manufacture this laser product was classified as a class 1 laser product in compliance with the national/international standards **DIN EN 60825-1 : 2003-10** and **DHHS Rules 21 CFR Subchapter J**. The laser beam in this class 1 laser product is so weak that it does not represent a hazard when used as intended. This product is designed in such a way that the laser beam is confined to the interior of the unit. However, this does not mean that the laser installed in the housing could not be classed as a laser product in a higher class without its housing. For this reason, you should never open the unit housing (nullification of warranty or goodwill).

Technical data of the laser installed in the unit:
Output of laser beam: 0.68mW (DVD) / 0.85mW (CD)
Wavelength of laser beam: 665nm (DVD) / 795 nm (CD)
The laser diode is not pulsed during operation.