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US english

1. Introduction and Initial Operation

Important information on operating and traffic safety

The **PCM (Porsche Communication Management)** relieves some of the burden on the driver and creates freedom for more individual mobility. To ensure that when using your PCM you do not endanger or harm yourself or others, the following points must be remembered:

- **Only use/operate your PCM when you can safely steer your vehicle. If in doubt, stop and operate the PCM when the vehicle is at a standstill.**

The Porsche navigation system guides you through traffic, making it easier to reach the destination. One-way streets, turning bans, turnoffs etc. have been carefully recorded and stored on the navigation CD.

The Porsche navigation system takes this information into consideration when calculating routes and provides you with information that will help you to reach your destination safely and easily. However, it cannot take the prevailing traffic situation and abruptly occurring dangers and obstacles into consideration.

Subsequent modifications of street layouts, e.g. due to construction, new housing developments, etc. or temporarily modified traffic regulations may lead to incorrect driving instructions in some circumstances.

Warning!
The navigation system only serves to assist the driver and provide a suggestion for the route of the journey.
However, this does not exonerate you from complete responsibility for your correct conduct in traffic according to the Road Traffic Regulations or other relevant regulations. As the driver, you must assess the particular traffic situation.
You alone bear the full responsibility for road safety.

Should a recommended driving maneuver contradict the applicable Road Traffic Regulations, the national traffic regulations always apply.

If a deviation is made from the route suggested by the navigation system, the navigation system automatically calculates a new route to the destination entered.

1.1. PCM - Increasing comfort and functionality in the cockpit

The **PCM (Porsche Communication Management)** is a driver information system perfectly tailored to your vehicle, an operating and display center for:

- Audio system,
- Trip computer,
- Navigation.

Its core is the central multi information display for all integrated components. The PCM provides increased driving safety, optimum functionality, the best possible convenience and a compact design.

The dialog-oriented menus, together with the clearly understandable voice announcements for the navigation function of the PCM, contribute to you driving through traffic in a better, safer and easier manner.

The PCM's overall range of functions is divided into 8 areas which are referred to below as "Main functions". This user guide is divided according to these main functions and provides you with information about all the options provided by your intelligent driver information system.

1.2. General instructions on operation

The PCM is a technologically highly developed system which always offers optimal and ergonomic use by the driver and front passenger thanks to its easy, self-explanatory operation.

Multi information display
The multi information display is a color screen with a screen size of 5.8 inches.

The PCM screen displays the individual menus of the integrated main functions. A menu contains options, list elements and information on the current system status.

The display is divided into a number of areas for most menus.

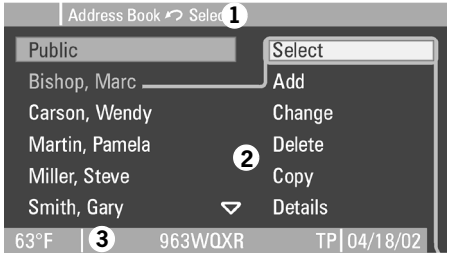


Fig. 1.1.

- **Top line (1)**
  In the top line, a menu tree is displayed containing the current menu/submenu. Symbols in the left-hand area of the top line refer to particular control options.

  The ⊞ symbol indicates that it is also possible to make an entry using the buttons on the numerical keypad **3**.

  The ↶ symbol indicates that by pressing the Back button **17** the individual characters in an entry can be deleted.

Note
There is no top line in the map screen.

- **Main display area (2)**
  The individual menus are displayed in the main display area. Options and lists for further operation of the PCM are available.

- **Bottom line (3)**
  The outside temperature is displayed in the left-handed area of the bottom line. The right-hand area displays the current date and a CD symbol, indicating accessing of the navigation CD.

  The center of the bottom line contains information on the active audio source (selected station, track number of the CD playing etc.).

  In various situations, operating or control instructions are displayed for a limited period in the bottom line.

Operating elements
The PCM's operating elements are the multi information display and the CD slot for navigation and audio CDs.

Under the display are the main function buttons **8** - **15**. These buttons can be used to switch between the individual main functions.
Please refer to Chapter 1.2.1. "PCM main functions" on page 6.

The individual functions of the operating elements are described in the Chapter 1.2.2. "Description of the operating elements" on page 8 or in the corresponding chapters of the user guide.

The rotary knob **16** is the central operating element. Using this rotary knob, settings and options are selected in the various menus of the PCM.

1.2.1. PCM main functions

The PCM main functions can be requested with the buttons **8 to 15**.

At any time, regardless of the current menu displayed, it is possible to change from one main function to another.
When changing to the original main function, the system will return to the same menu that was open before the main function. In this way, parallel operation of the menus is possible.

If a lower-level menu is open, after pressing the corresponding main function button, the system goes back to the main menu.

The various main functions are:

MAIN main function button 8
The MAIN main function is an overview display showing the most important information regarding the various main functions.
Please refer to Chapter 2. "Main Display (MAIN)" from page 14.

AUDIO main function button 9
Using the Audio main function, the audio sources FM and AM, the built-in CD-drive (CDS) and the external CD-changer (CDC) can be operated.
Please refer to Chapter 3. “Audio System (AUDIO)” from page 20.

SOUND main function button 10
Using the SOUND main function, sound settings for the PCM can be made.
Please refer to Chapter 4. “Sound Settings (SOUND)” from page 39.

ORG main function button 11
Using the organizer main function you can create and organize an address book.
Please refer to Chapter 5. “Organizer (ORG)” from page 43.

VOICE main function button 12
Reserved for voice control.

INFO main function button 13
Using the information main function, you can display information on the current location.
Please refer to Chapter 6. “Information (INFO)” from page 48.

TRIP main function button 14
The trip computer main function controls a powerful trip data computer.
Speed limits can also be entered, which trigger a visual or acoustic signal when exceeded.
Please refer to Chapter 7. “Trip Computer (TRIP)” from page 49.

NAVI main function button 15
Using the navigation main function, a powerful navigation system with map display is available.
Please refer to Chapter 8. “Navigation (NAVI)” from page 53.

Note
Depending on the equipment of your PCM, individual functions are not available.
The CD changer and various sound packages form part of the special equipment of the PCM.
If components unavailable in the menu (e.g. CD changer) are requested, a message appears in the bottom line.

1.2.2. Description of the operating elements

The function of the operating elements described below depends on the currently selected main function.

Volume control 7
The following settings can be altered by turning the volume control **7**:

- volume of the active audio source,
- volume for the announcement of a driving recommendation,
- volume for a traffic announcement.

By pressing the volume control **7**, the following functions are executed:

- switching the PCM on/off.
  Please refer to Chapter 1.4. “Switching PCM On/Off and standby mode” on page 12.
- interrupting navigation and traffic announcements.

Back button 17
- By pressing the Back button **17**, a list selection can be canceled and the branching of the menu can be reversed.
- Characters already entered in an input menu are deleted by pressing the Back button **17**. All the characters can be deleted gradually if it is pressed and held. This option is indicated in the top line by the symbol ↶.

FM button 1
Pressing the FM button **1** switches to the FM mode. Please refer to Chapter 3.1. “FM mode” on page 21.

AM button 2.
Pressing the AM button **2** switches to the AM mode. Please refer to Chapter 3.2. “AM mode” on page 24.

CD button 26
Pressing the CD button **26** switches to the single CD mode. Please refer to Chapter 3.4. “Single CD mode” on page 30.

CDC button 25
Pressing the CDC button **25** switches to the CD changer mode. Please refer to Chapter 3.5. “CD changer mode (optional equipment)” on page 34.

Numerical keypad 3
Using the buttons on the numerical keypad **3**, the following functions are executed:

- In radio mode, the station presets assigned to the current preset memory are requested.
- In radio mode, the currently selected station is stored in the active preset memory under the corresponding station preset by pressing and holding.
- In CD mode, the track is selected.
- In CD changer mode, a CD in the CD changer can be selected by pressing and holding.
- In the navigation map, the displayed cursor is shifted by pressing the buttons 0 - 9.
  Please refer to Chapter 8.4.6. “Destination input via cursor” on page 61.

Note
In some input menus, a number can be entered using the buttons on the numerical keypad **3**. This option is indicated in the top line by the symbol ▦.

Buttons 4 and 5
Buttons **4** and **5** have different functions depending on the active audio source:

- In radio mode, a station search is performed.
- In CD mode, track skipping is performed.
- Fast forward / reverse is activated by pressing and holding this button in CD mode.

Set button 18
By pressing the Set button **18** settings in the active main functions can be performed.
Settings which relate to the entire PCM, such as time, date and measurement units, can be found in the setting range of the MAIN main function.

Map button 19
Pressing the map button **19** switches between menu display and map display in the NAVI main function.
Please refer to Chapter 8.11. “Map display” on page 70.

Diversion button 20
By pressing the Diversion button **20** a menu for entering a traffic jam diversion can be called up.
Please refer to Chapter 8.5. “Diversion” on page 64.

Repeat button 6
By pressing the Repeat button **6** a current driving recommendation can be requested during active route guidance. This may be necessary if, e.g., a driving recommendation was not understood.

Display button 21
Switches display on/off (dazzle protection)
Using the Display button **21** the PCM display can be switched on and off.

By operating in the following way, the display which was switched off using the Display button **21** is also switched on again:

- by pressing a main function button (**8**, **9**, **10**, **11**, **13**, **14**, **15**)
  The display is switched on and the selected main function is activated, regardless of the menu previously selected.
- By pressing one of the buttons **18**, **19**, **20**, **21**.
  The display is switched on and the corresponding menu requested.
- By pressing the button **17** or pressing the rotary knob **16**.
  The display is switched on.
- By exceeding the set limit.
  The limit display is given for approx. 3 seconds. Then the display is switched off again.
  Please refer to Chapter 7.1.3. “Limits” on page 51.

Eject button 22
By pressing the Eject button **22** a CD inserted in the PCM CD-drive is ejected and can be removed from the CD slot **23**.

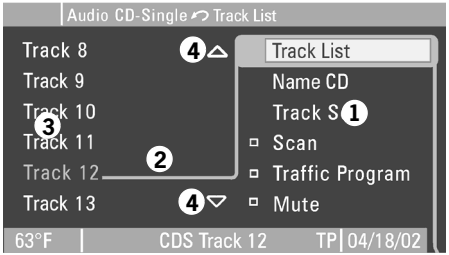


Fig. 1.2.

1.2.3. Menu operation

The main functions of the PCM are operated using menus. The rotary knob **16**, the Back button **17** as well as the Set button **18** serve as operating elements.
In most menus, options are displayed in the right-hand area of the display (1).
These options can be highlighted by turning the rotary knob **16** and activated by pressing the rotary knob **16**.
Fig. 1.2. shows an example of this.
If an option is gray, this cannot be highlighted.

Note
The process of using the rotary knob **16** for selecting (turn) and activating (press) will be referred to below as "**selecting**".

In all the menus, the displayed options or lists are provided with an upper or lower stop.

After selecting an option, another menu is displayed or a certain function is performed.
In some cases, the displayed menus are expanded by a list in the left-hand area of the display (3).

If something can be selected from a list, then an "elastic band" (2) is shown to the corresponding option.
By turning the rotary knob **16** the highlighting in the displayed list is moved.
The highlighted list entry has a different color from the other lists entries.

Arrowheads at the top and bottom (4) area of the list indicate that other entries are available for selection.
By pressing the rotary knob **16** the entry highlighted in the list is selected.

If a value is set or a setting is made in a menu, these must be confirmed by pressing the rotary knob **16**.
Pressing the Back button **17** closes the menu without applying the previously selected setting.

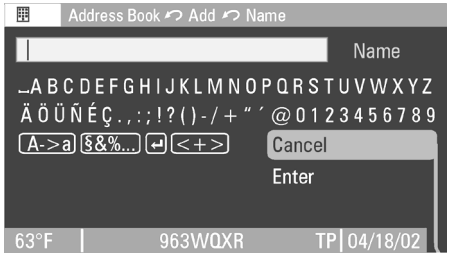


Fig. 1.3.

1.2.4. Input menu operation

Data can be input into the PCM in many cases. This may be necessary, for example, when entering a navigation destination or for storing a name for a navigation destination.

The input of data is performed in the input menus by selecting the characters using the rotary knob **16**.
In some cases, the numbers 0 to 9 can be entered using the numerical keypad **3**.
Please refer to Chapter 1.2.2. “Description of the operating elements” on page 8.

The various input menus usually differ only slightly. The available characters are always displayed.
An example of an input menu is shown in Fig. 1.3.

Symbols for changing the range of characters displayed and for moving the cursor are available in the input menus.

<+> symbol
After selecting this symbol, the cursor is moved to after the character entered last in the entry field. By turning the rotary knob **16** any position in the text already entered can be selected.
By pressing the rotary knob **16** it is possible to make another character entry. Entering other characters moves the characters after the cursor to the right.

A->a symbol
After selecting this symbol it is possible to change between upper and lower case.

§&%... symbol
After selecting this symbol, the available special characters can be displayed and selected.

A->a symbol
After selecting this symbol it is possible to insert a line break in the text entered.

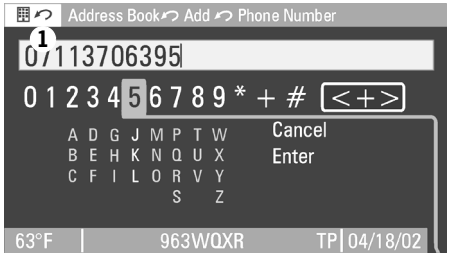


Fig. 1.4.

The Back button **17** is used to delete characters already entered.
When this button is pressed once, the character to the left of the cursor is deleted. If it is pressed and held, the entire entry to the left of the cursor is gradually deleted.
The delete option is indicated in the top line by the symbol ↶ (1).

The characters entered can be applied in input menus by selecting the option **Enter**.

The input menus also contain the option **Cancel**. This can be used to quickly quit the input menus.

1.3. PCM functions in the on-board computer

PCM functions which can be accessed via the control lever on the steering wheel are displayed in the on-board computer.
Information on the selected audio source and navigation route guidance instructions can be requested.

1.4. Switching PCM On/Off and standby mode

Note
Depending on the system status, the switch-on times may vary.

1.4.1. Switching on/off via the ignition

Switch on the ignition. The PCM is active.

Note
If the PCM was switched off at the volume control **7** before switching off the ignition, the volume control must be pressed again after switching on the ignition.

1.4.2. Switching on/off via the volume control

The PCM can be switched on/off by pressing the volume control **7**, even with the ignition switched on.

Note
If the ignition is off, the PCM switches off automatically after half an hour (battery discharge protection).

1.4.3. Standby mode

Press volume control **7** with the ignition switched on.
The screen becomes dark and the sound switches off. The navigation system continues to work in the background. However, no route guidance instructions are given.

Canceling standby mode
Press volume control **7** again. The PCM switches on.

Please refer to Chapter "Display button 21 Switches display on/off (dazzle protection)" on page 9.

1.5. Maintenance and care of the PCM

The PCM contains high-quality, electronic components, the maintenance and care of which require special attention. Please remember the following points:

- The screen will scratch easily.
- The screen is sensitive to cleaning agents.
- The penetration of liquids may result in damage to the unit.

Cleaning advice:
Carefully clean your PCM from time to time using a dry, clean and soft cloth (microfiber cloth) or a cleaning brush, as can be obtained for electronic equipment (e.g. in specialist computer stores). Do not use any liquid cleaning agents.

Note:

- If faults occur, never open the PCM unit yourself. Consult a Porsche dealer.
- At particularly low temperatures, the maximum brightness of the screen will only be reached after a certain operating period.

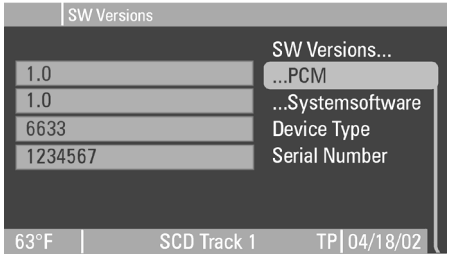


Fig. 1.5.

1.6. Displaying the current PCM software version

To find out the software version on your PCM, press the MAIN button **8** and the TRIP button **14** simultaneously.

2. Main Display (MAIN)

The main display (MAIN) shows selected information about the PCM functions.
This display can be active for the entire journey.

Requesting the Main main function
Press Main button **8**.
Fig. 2.1. provides an example of a main function.

The MAIN display is divided into two display areas.

Depending on the active audio source (CD or radio) and the settings in MAIN Set, the following may be displayed in the left-hand display area:

- information on the active audio source
- information from the trip computer
- navigation status

Please refer to Chapter 2.2. “MAIN Set” on page 15.

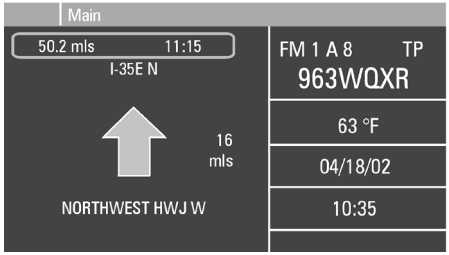


Fig. 2.1.

The right-hand display area is divided into several, vertically arranged areas. Depending on the active audio source (CD or radio) and the settings in MAIN Set, the following may be displayed:

- information on the active audio source (FM, AM or CD)
- outside temperature
- time
- date

Note
The format for the date and time display may be set in MAIN Set.

2.1. Display range

Audio: depending on the active audio source (radio mode/CD mode):

- waveband, memory level and preset (e.g. FM 1 A 8)
- station name or station frequency
- traffic program announcement standby (TP)
- symbol for mute function (loudspeaker crossed through)
- number of current track and total number of tracks (e.g. 4/25)
- elapsed track time (e.g. 05:10)
- CD number and the maximum number of available CDs in the CD changer (e.g. 4/6)

Time and outside temperature:
- date and time
- outside temperature

Navigation:

Route guidance inactive:

- message **Route guidance not active**

Route guidance active:

- message e.g. **Fast route is being calculated** (during the calculation of a route)
- message **Insert navigation CD**. (if necessary)
- graphic representation of the next turn
- distance to the next turn
- display of the next road to be taken
- display of the current road being driven on

Trip computer: depending on the configuration of the trip computer main function

- current driving time in hours and minutes
- route covered so far
- average speed
- fuel mileage
- remaining fuel range
- distance to destination

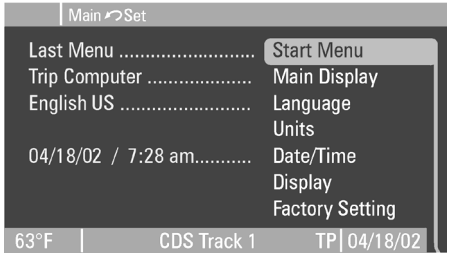


Fig. 2.2.

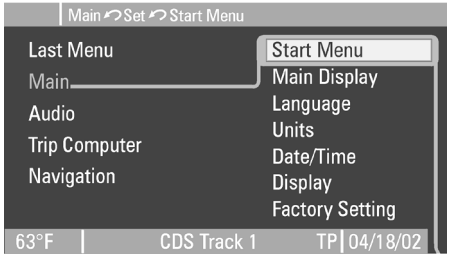


Fig. 2.3.

2.2. MAIN Set

In MAIN Set, you can adjust the PCM to suit your precise requirements (screen settings, language, etc.).

Requesting MAIN Set
When the Main main function is active, press the Set button **18**. (Fig. 2.2.)

The options **Start Menu**, **Main Display**, **Language**, **Units**, **Date/Time**, **Display** and **Factory Setting** are available for operating the system.

2.2.1. Setting start menu

Select the menu with which the PCM is to start after switching off and on.

After selecting the option **Start Menu** by turning the rotary knob **16** choose **Last Menu**, **Main**, **Audio**, **Trip Computer** or **Navigation**. To apply the selected setting, press the rotary knob **16**. (Fig. 2.3.)

- **Last Menu**
  The PCM starts with the menu displayed last.

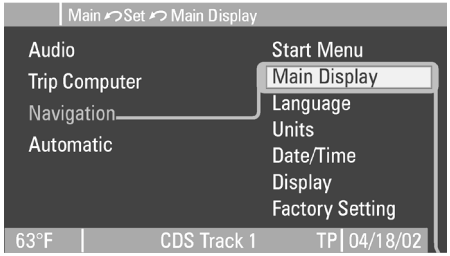


Fig. 2.4.

- **Main, Audio, Trip Computer, Navigation**
  The PCM starts with the selected main menu.

Note
After setting the Start menu, switch the PCM off completely (ignition off for more than 10 sec). Only after switching the ignition on again will the settings become active.

2.2.2. Setting main display

Select one of the main functions available whose status information is to be displayed in the left-hand area of the Main menu.

After selecting **Main Display** by turning the rotary knob **16** choose **Audio**, **Trip Computer**, **Navigation** or **Automatic**.
To apply the selected setting, press the rotary knob **16**. (Fig. 2.4.)

- **Audio, Trip Computer, Navigation**
  Audio information, information from the trip computer or navigation information is displayed in the left-hand area of the Main main menu.

- **Automatic**
  Information on the active audio source or, with active navigation, navigation data is displayed in the left-hand area of the Main main menu.

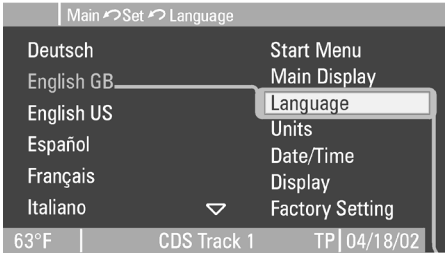


Fig. 2.5.

2.2.3. Setting language

Set the user language for the PCM and the voice announcements in navigation mode.

After selecting **Language** in the MAIN Set menu by turning the rotary knob **16** choose **Deutsch**, **English GB**, **English US**, **Español**, **Français**, **Italiano** or **Nederlands**.
To apply the selected setting, press the rotary knob **16**. (Fig. 2.5.)

The selected setting is applied and the language is set. The navigation CD must be inserted to load the voice announcements.

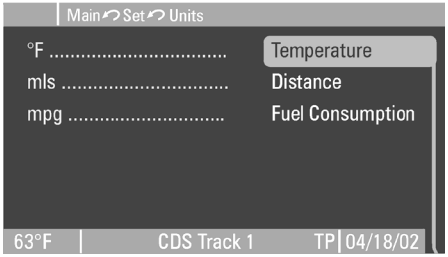


Fig. 2.6.

2.2.4. Setting units

Set the measurement units that the PCM is to use.

After selecting **Units** in the MAIN Set menu by turning the rotary knob **16** choose one of the options **Temperature**, **Distance** and **Fuel Consumption**.
The currently applied settings are given in the left-hand area of the display. (Fig. 2.6.)

- **Temperature**
  After selecting **Temperature** choose either **°C** (display in degrees Celsius) or **°F** (display in degrees Fahrenheit).
- **Distance**
  After selecting **Distance** choose either **km** (kilometers) or **mls** (miles).
- **Fuel Consumption**
  After selecting **Fuel Consumption** choose the desired unit for calculation.
  - **l/100 km**
    Fuel consumption is given in liters per hundred kilometers.
  - **km/l**
    This shows how many kilometers are driven per liter.
  - **mpg**
    This shows how many miles are driven per gallon.
  - **mpg (UK)**
    This shows how many miles are driven per gallon. These are English gallons.

Fig. 2.7.

2.2.5. Setting date/time

Set the time and date here.

After selecting **Date/Time** the options **Hours**, **Minutes**, **12/24**, **Time Zone**, **Summer Time** and **Date Format** are available for further operation of the system. (Fig. 2.7.)

- **Hours** or **Minutes**
  After selecting **Hours** or **Minutes** by turning the rotary knob **16** set the correct time.
  To apply the selected setting, press the rotary knob **16**.

- **12/24**
  After selecting **12/24** choose the desired display format.
  12h
  Display format for time: 4:42 pm
  24h
  Display format for time: 16:42

- **Time Zone**
  After selecting **Time Zone** using the rotary knob **16** choose one of the various time zones.
  To apply the selected setting, press the rotary knob **16**.
  The hours specified in the time zones are added to or subtracted from the current time.

- **Date Format**
  After selecting **Date Format** by turning the rotary knob **16** choose the desired display format for the date.
  To apply the selected setting, press the rotary knob **16**.

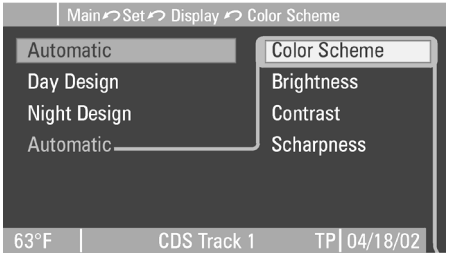


Fig. 2.8.

2.2.6. Setting display

Adapt the PCM screen to your personal requirements.

After selecting **Display** using the rotary knob **16** choose one of the options **Color Scheme**, **Brightness**, **Contrast** and **Sharpness**.
(Fig. 2.8.)

- **Color Scheme**
  After selecting **Color Scheme** using the rotary knob **16** choose one of the settings **Day Design**, **Night Design** or **Automatic**.
  To apply the selected setting, press the rotary knob **16**.

- **Day Design**
  Your PCM will always remain set to the colors of the day design.
  The screen colors are optimized for good legibility.

- **Night Design**
  Your PCM will always remain set to the colors of the night design.
  The screen colors are dimmed to reduce any dazzle effect.

- **Automatic**
  Your PCM automatically switches from day design to night design depending on the vehicle lighting and ambient lighting conditions.

Note
A change is only visible in the map display.

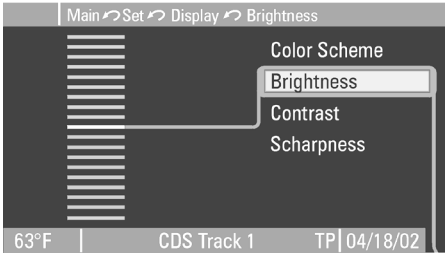


Fig. 2.9.

- **Brightness**
  After selecting **Brightness** by turning the rotary knob **16** set the desired screen brightness. (Fig. 2.9.)
  To apply the selected setting, press the rotary knob **16**.
  A change is only visible in poor ambient lighting conditions.

The brightness in day mode is regulated automatically depending on the ambient lighting conditions. With night mode, the screen brightness is set with the instrument lighting of the vehicle.

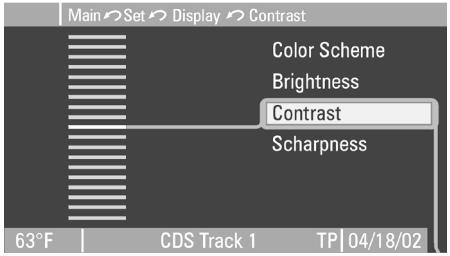


Fig. 2.10.

- **Contrast**
  After selecting **Contrast** by turning the rotary knob **16** set the desired screen contrast. (Fig. 2.10.)
  To apply the selected setting, press the rotary knob **16**.

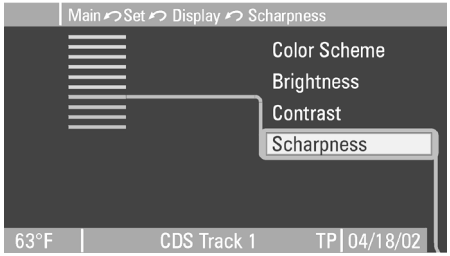


Fig. 2.11.

- **Sharpness**
  After selecting **Sharpness** by turning the rotary knob **16** set the desired screen sharpness. (Fig. 2.11.)
  To apply the selected setting, press the rotary knob **16**.

2.2.7. Factory Setting

After selecting **Factory Setting** the settings can be reset to predefined values.
Selecting **Yes** will delete your settings.

3. Audio System (AUDIO)

The PCM's audio system (AUDIO) permits operation of the RDS radio with FM and AM reception, the built-in CD player and the Porsche 6-CD changer (optional equipment).

Requesting Audio main function
Press the AUDIO button **9**.

In radio mode (FM and AM), the assignment of the station presets is given in the left-hand display area. Information on the selected station is given in the status field underneath. (Fig. 3.1.)

For the radio sources FM and AM, a total of 60 stations are available in preset memories A, B and AS (Autostore) for storing stations.

The PCM is capable of receiving RBDS signals (RBDS = Radio Broadcast Data System) in the FM band. RBDS is a technique for the transmission of inaudible additional information in the FM band.

The PCM analyses this information and displays, for example, the name of the station.
If not all criteria are fulfilled for analyzing RBDS information, the unit only displays the frequency.

Alternative frequencies are included in the information transmitted by the broadcasting station. Using these alternative frequencies, the PCM can conduct an evaluation and constantly tune into the best-quality frequency.

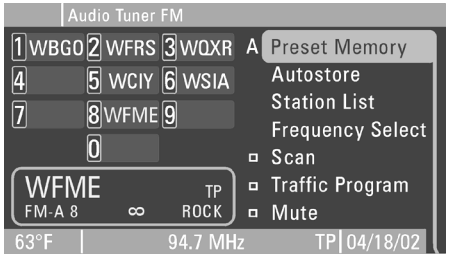


Fig. 3.1.

In CD mode, the name of the CD, CD number (CD changer only), track name or track number and number of tracks, elapsed track time, total playing time and track sequence are displayed.
For operating the system, the functions **CD List** (CD changer only), **Track List**, **Name CD**, **Track Seq.** and **Scan** are available.

3.1. FM mode

To switch on FM mode, press the Audio button **9**. Then press the FM button **1**.

Note
Using the FM button **1** it is possible to switch to FM mode from any menu.

3.1.1. Tuning to a radio station

- Station search
  Press the Search button **4** or **5**.
  The PCM searches in descending/ascending order of frequency. The station search stops at the first receivable station.
- Station buttons
  Press one of the buttons on the numerical keypad **3**. This will tune to the relevant stored frequency or station. Only frequencies or stations in the active preset memory can be requested.
  Please refer to Chapter "Preset Memory" on page 22.
- Autostore
  Please refer to Chapter "Autostore" on page 22.
- Station list
  Please refer to Chapter "Station list" on page 22.
- Direct frequency entry
  Please refer to Chapter "Frequency Select" on page 23.
- Scan
  Please refer to Chapter "Scan" on page 23.

3.1.2. Storing stations

The station being listened to can be stored on the currently selected preset memory.
Please refer to Chapter "Preset Memory" on page 22.

To store the station, press and hold the button on the numerical keypad **3**, to which the station is to be stored, for longer than 1 second.
The station is displayed and highlighted in the corresponding memory field.

Notes
If the stored station is an RBDS station, the abbreviated station name appears in the memory presets in the FM main menu. (Fig. 3.2.)
With stations without RDS, the station frequency is displayed instead of the name.

Stations which transmit other information instead of the station name (e.g. weather, football results), are abbreviated to L-1, L-2, L-3 etc.

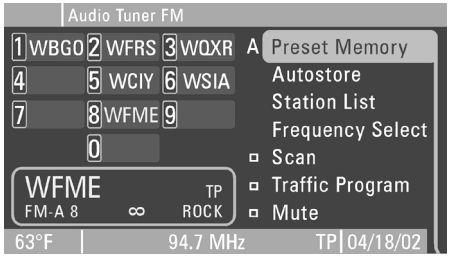


Fig. 3.2.

If a station is selected which is already present at a station preset on the active preset memory, the corresponding preset is displayed in orange.

3.1.3. FM main menu

In the left-hand area of the menu there are 10 station presets which resemble the numerical keypad **3**. These station presets display the stored stations.
Under the station presets is a status field which contains the following information on the selected station: station name or station frequency, traffic program identification (TP), preset memory, preset, stereo symbol and program type.
In the right-hand area, the options **Preset Memory**, **Autostore**, **Station List**, **Frequency Select**, **Scan**, **Traffic Program** and **Mute** are available. (Fig. 3.2.)

Preset Memory
Stations can be stored in and requested from three different preset memories.
The active preset memory is indicated by A, B or AS (Autostore) in front of the option **Preset Memory.** (Fig. 3.2.)

Switching preset memory
Switch preset memory by selecting **Preset Memory** using the rotary knob **16**.

Note
A selected station remains selected even after changing the preset memory.
If the selected station is already stored in this preset memory, the corresponding preset is displayed in orange.

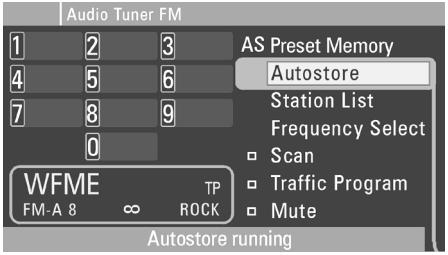


Fig. 3.3.

Autostore
Autostore stores the 10 stations with the currently strongest reception in its own preset memory.

Selecting **Autostore** starts the storing of the stations.
The Autostore preset memory is called up. **Autostore running** appears in the bottom line. (Fig. 3.3.)
During the search, the sound is muted.

The stored stations are displayed in the memory fields.
After the memory fields have been reassigned, the system tunes to the strongest station.

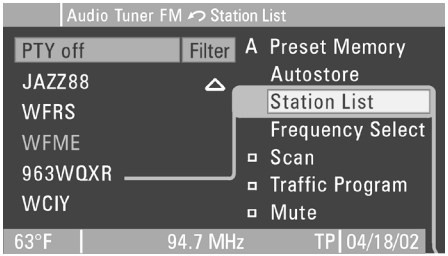


Fig. 3.4.

Station list
The stations that can be currently received are listed in the station list (maximum 28 stations). These can be selected here.

Displaying station list
Using the rotary knob **16** select **Station List**. The station list is displayed in the left-hand display area.

Requesting stations
By turning the rotary knob **16** highlight a station in the station list.
The system tunes to the highlighted station, provided it remains highlighted without change for 1 second.

Note
The station list can be filtered and sorted according to certain criteria. The filters are displayed in the first line of the list.
Please refer to Chapter 3.3. “Audio Set” from page 26.

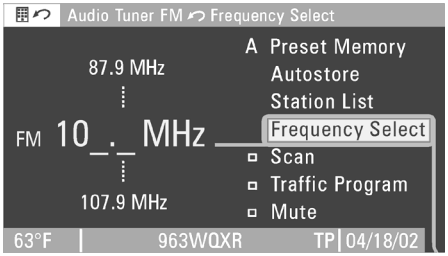


Fig. 3.5.

Frequency Select
The option **Frequency Select** permits the direct entry of a frequency.

Requesting frequency select menu
Using the rotary knob **16** select **Frequency Select**. (Fig. 3.5.)

The limits of the frequency range are displayed above and below the entry field.

Frequency entry
- Using the buttons of the numerical keypad **3** enter the digits of the frequency directly **or**
- set the frequency by turning the rotary knob **16**.

Scan
When this function is activated, every station found in the frequency range is played for approx. 8 seconds.

By selecting **Scan** using the rotary knob **16** the scan function is switched on (☑) or off (☐).

Canceling function
- Press buttons **4** or **5 or**
- press rotary knob **16**.

The station which is currently playing remains selected.

Fig. 3.6.

Traffic program
By selecting **Traffic Program** using the rotary knob **16** the traffic program is switched on (☑) or off (☐).
When the traffic program is active, **TP** is displayed in the bottom line. (Fig. 3.6.)

Traffic program stations and the TP volume can be set in Audio Set.
Please refer to Chapter 3.3. “Audio Set” from page 26.

Current traffic announcements can be terminated by pressing the volume control **7**.

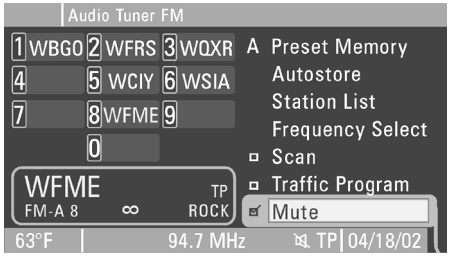


Fig. 3.7.

Mute
By selecting **Mute** using the rotary knob **16** the mute function is switched on (☑) or off (☐).

The mute symbol can be seen in the bottom line (loudspeaker crossed through, Fig. 3.7.).

Navigation recommendations and traffic program announcements are still audible.

3.2. AM mode

To switch on AM mode, press the Audio button **9**. Then press the AM button **2**.

Note
Using the AM button **2** it is possible to switch to AM mode from any menu.

3.2.1. Tuning to radio stations

- Station search
  Press the Search button **4** or **5**.
  The PCM searches in descending/ascending order of frequency. The station search stops at the first receivable station.
- Station buttons
  Press one of the buttons on the numerical keypad **3.** This will tune to the particular stored frequency or station. Only frequencies or stations in the active preset memory can be requested.
  Please refer to Chapter “Preset memory” on page 25.
- Autostore
  Please refer to Chapter “Autostore” on page 25.
- Direct frequency entry
  Please refer to Chapter “Frequency Select” on page 26.
- Scan
  Please refer to Chapter “Scan” on page 26.

3.2.2. Storing stations

The station being listened to can be stored on the currently selected preset memory.
Please refer to Chapter “Preset memory” on page 25.

To store the station, press and hold the button on the numerical keypad **3**, to which the station is to be stored, for longer than 1 second.
The station is displayed and highlighted in the corresponding memory field.

Note
If a station is selected which is already available at a station preset on the active preset memory, the corresponding preset is displayed in orange.

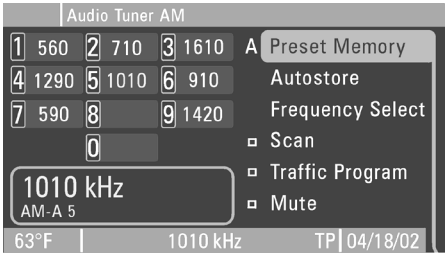


Fig. 3.8.

3.2.3. AM main menu

In the left-hand area of the menu there are 10 station presets which resemble the numerical keypad **3**. These station presets display the stored stations.
Under the station presets is a status field which contains the following information on the selected station: station frequency, preset memory and preset.

In the right-hand area, the options **Preset Memory**, **Autostore**, **Frequency Select**, **Scan**, **Traffic Program** and **Mute** are available. (Fig. 3.8.)

Preset memory
Stations can be stored in and requested from three different preset memories.
The active preset memory is indicated by A, B or AS (Autostore) in front of the option **Preset Memory.** (Fig. 3.8.)

Switching preset memory
Switch preset memory by selecting **Preset Memory** using the rotary knob **16**.

Note
A selected station remains selected even after changing the preset memory.
If the selected station is already stored in this preset memory, the corresponding preset is displayed in orange.

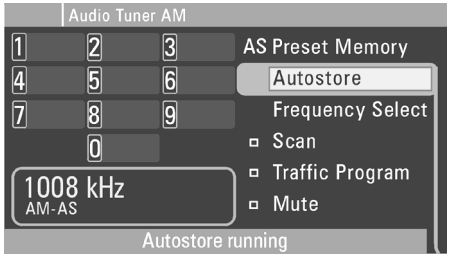


Fig. 3.9.

Autostore
Autostore stores the 10 stations with the currently strongest reception in its own preset memory.

Selecting **Autostore** starts the storing of the stations.

The Autostore preset memory is called up. **Autostore running** appears in the bottom line. (Fig. 3.9.)
During the search, the sound is muted.

The stored stations are displayed in the memory fields.
After the memory fields have been reassigned, the system tunes to the station with the strongest reception.

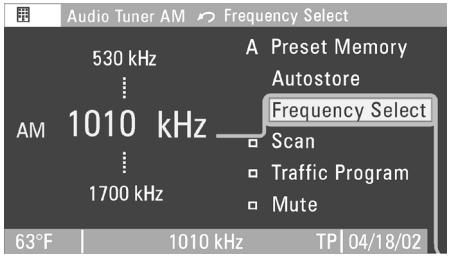


Fig. 3.10.

Frequency Select
The option **Frequency Select** permits the direct entry of a frequency.

Requesting frequency select menu
Using the rotary knob **16** select **Frequency Select**. (Fig. 3.10.)

The limits of the frequency range are displayed above and below the entry field.

Frequency entry
- Using the buttons of the numerical keypad **3** enter the digits of the frequency directly **or**
- set the frequency by turning the rotary knob **16**.

Scan
Please refer to Chapter “Scan” on page 23

Traffic program
Please refer to Chapter “Traffic program” on page 23

Mute
Please refer to Chapter “Mute” on page 24

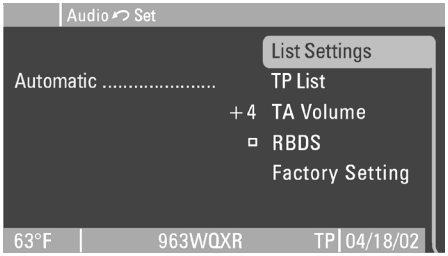


Fig. 3.11.

3.3. Audio Set

In Audio Set, settings for the station list and for the traffic program can be made, and also the RBDS function can be activated.
The Audio settings can be reset here to the factory settings.

Requesting Audio Set
With the Audio main function active, press the Set button **18**.
The current settings are displayed. (Fig. 3.11.)

Explanation of the RBDS functions
The PCM is capable of receiving RBDS signals (RBDS = Radio Broadcast Data System) in the FM band. RBDS is a technique for the transmission of additional information in the FM band. The PCM analyzes this information.

- PTY (program type):
  With RBDS stations, the station's program type can be transmitted (not for all stations). These stations transmit an identification which corresponds to the current program (e.g. NEWS for news programs).

  The following program types exist:
  - NEWS - News service
  - SOFT - Soft music
  - INFORM - Information programs
  - NOSTALGA - Nostalgia
  - SPORTS - Sports reports
  - JAZZ - Jazz music
  - TALK - Talk
  - CLASSICL - Classical
  - ROCK - Rock music
  - R B - R &B
  - CLS ROCK - Classic rock
  - SOFT R B - Soft R&B
  - ADLT HIT - Adult hits
  - LANGUAGE - Language program
  - SOFT RCK - Soft rock
  - REL MUSC - Religious music
  - TOP 40 - Top 40
  - REL TALK - Religious talk
  - COUNTRY - Country music
  - PERSNLTY -Personality
  - OLDIES - Oldies
  - PUBLIC - Public
  - WEATHER - Weather forecast
  - PTY 24 - 28 - Not specified
  - NO PTY - No program type

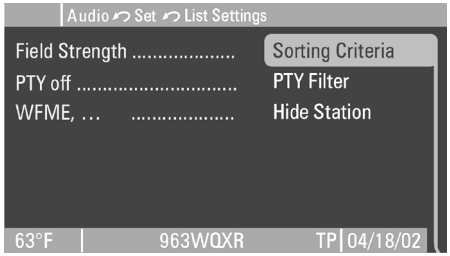


Fig. 3.12.

3.3.1. List settings

Here the display range of the station list can be set.
Please refer to Chapter "Station list" on page 22.

After selecting **List Settings** select one of the options **Sorting Criteria**, **PTY Filter** or **Hide Station**. (Fig. 3.12.)

The current settings are given in the left-hand area of the display.

Note
The functions described in this chapter only affect the FM station list.
Please refer to Chapter "Station list" on page 22.

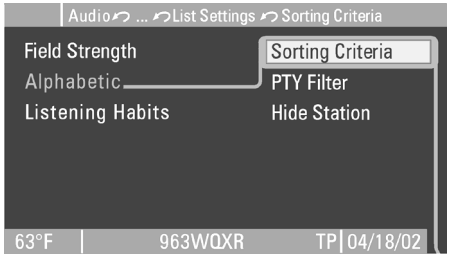


Fig. 3.13.

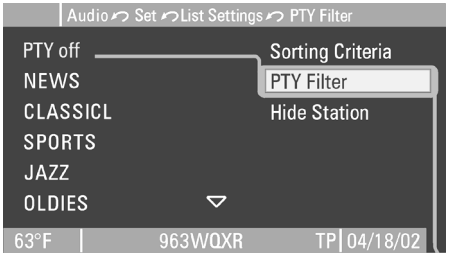


Fig. 3.14.

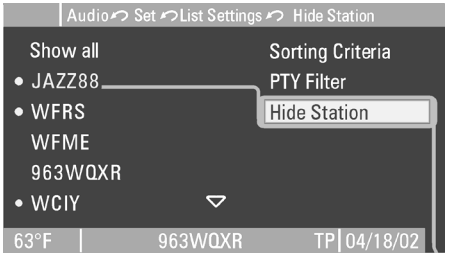


Fig. 3.15.

Sorting Criteria
The station list can be sorted according to the following criteria. (Fig. 3.13.)

- **Field Strength**
  The stations are sorted according to field strength. The station with the greatest field strength is at the top of the station list.

- **Alphabetic**
  The stations are displayed in alphabetical order in the station list.

- **Listening Habits**
  The stations are sorted according to listening habit. The station that is listened to most is at the top of the station list.

PTY Filter
Using the PTY filter, a program type can be selected from a list.
The program types currently receivable are displayed in the list. The list is updated automatically and adapted to the current reception conditions. (Fig. 3.14.)

- **Switching PTY filter on**
  Highlight the desired program type using the rotary knob **16**. In the station list, only stations of this program type are displayed.

- **Switching PTY filter off**
  Using the rotary knob **16** select **PTY off**. The PTY filter is switched off. All the stations to be received are displayed again in the station list.

Hide Station
Using **Hide Station** a maximum of 30 different stations from the station list can be hidden. Stations that are already hidden are indicated with a dot. (Fig. 3.15.)

Note
The station being listened to is not available.

- **Hiding**
  Select the station that is not to appear in the station list using rotary knob **16**.

- **Showing**
  Reselect the hidden stations (indicated with a dot) using the rotary knob **16** again.

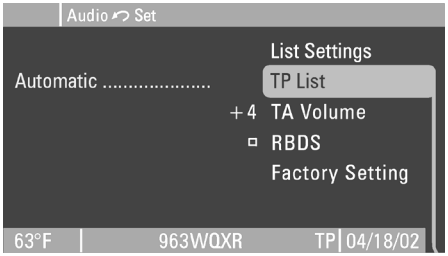


Fig. 3.16.

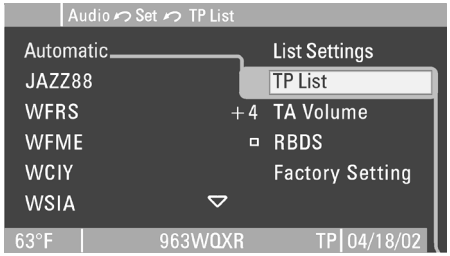


Fig. 3.17.

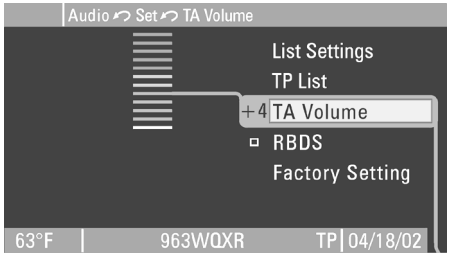


Fig. 3.18.

- Show all
  Using the rotary knob **16** select **Show all**. All the stations to be received are displayed again in the station list.

3.3.2. TP List

The TP station list displays all the TP stations to be received. Any TP station can be selected.

The currently set TP station is displayed in the Audio Set menu. (Fig. 3.16.)
Possible displays:

- **Automatic** or
- a specific station, e.g. **WFME**.

After selecting **TP List** using the rotary knob **16** select either automatic or manual setting of a TP station. (Fig. 3.17.)

- **Automatic**
  Using the rotary knob **16** select **Automatic**. The station being listened to is set as the TP station.
  If the station being listened to no longer fulfils the reception criteria or it does not have a traffic program, the systems switches to another TP station automatically.

- **Setting TP station**
  Select station from the list. This station is set as the TP station.

3.3.3. TA Volume

To make traffic announcements stand out from the current audio source, a TP volume increase can be set.

After selecting **TA Volume** using the rotary knob **16** set a value for the volume increase for traffic announcements. (Fig. 3.18.)

Note
The setting for the TP volume (traffic program announcement volume) is dependent on the audio volume.

3.3.4. RBDS

In various regions, radio stations transmit programs with the same program content on different frequencies (alternative frequencies). These alternative frequencies are transmitted in the RBDS data.

When RBDS mode is active, the system switches to the strongest alternative frequency for the station being listened to.

Switching RBDS on and off
By selecting **RBDS** using the rotary knob **16** the RBDS mode is switched on (☑) or off (☐).

3.3.5. Factory Setting

After selecting the option **Factory Setting** the settings can be reset to predefined values. Selecting **Yes** will delete your settings.

3.4. Single CD mode

Starting single CD mode
- By inserting an audio CD into the CD slot **23**.
  The printed side of the CD must face upward. The CD is withdrawn automatically and playback starts with the first track.
  If the CD is not an audio CD the following message appears in the bottom line: **CD Single: no audio CD**.
- By pressing the CD button **26**.
  CD playback starts at the point at which it was previously interrupted, e.g. by switching to FM mode.
  If there is no CD in the single CD drive or the CD is a navigation CD, this is indicated in the bottom line by the following messages **CD Single: no CD** or **CD Single: Navigation CD**.

Ending single CD mode
- By pressing the Eject button **22**.
  This switches the system to radio mode with the last waveband and station setting. The CD is ejected and remains in the removal position for 10 seconds. Then it is withdrawn for safety reasons. The radio mode remains active.
- By pressing the FM button **1** or AM button **2**.
  This switches to radio mode. The last selected station is set. The CD remains withdrawn.

Instructions for the compact disc (CD)
Skipping may occur if the CD is soiled. In order to ensure the best sound quality, please note the following information:

- Always touch the CD at the edges only. Never touch the unprinted side and keep the CD clean.
- Never stick anything on the CD.
- Protect the CDs against direct sunlight and from heat sources such as heaters etc.
- Before playing the CD, it should be cleaned with a special, commercially available cleaning cloth, wiping from the center outward. Solvents such as benzene, thinners or other commercially available cleaning agents and anti-static sprays must not be used.
- Do not bend CDs.
- The system may not be able to play copy-protected audio CDs or CDs with CD-ROM sections which do not correspond to the audio CD standard.

Fig. 3.19.

3.4.1. Explanation of the single CD main menu

Press the AUDIO button **9**.
The menus for single CD operation are called up. (Fig. 3.19.)

The left-hand area of the menu contains a status field.
The following is displayed in the status field:

- the self-assigned name or the CD text (if available)
- track name and track number (if available)
- number of tracks
- elapsed track time
- total playing time
- track sequence set

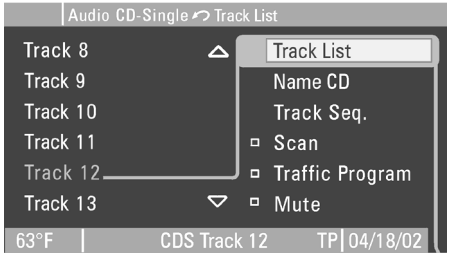


Fig. 3.20.

In the right-hand area of the menu, the options **Track List**, **Name CD**, **Track Seq.**, **Scan**, **Traffic Program** and **Mute** are available.

Track List
Using the rotary knob **16** select **Track List**. The CD track list is displayed in the left-hand display area. (Fig. 3.20.)
The track numbers or the track names (if available) are displayed in the track list.

The two symbols **upward-pointing arrow** or **downward-pointing arrow** indicate that there are additional entries above and below the visible area, respectively. Continue turning rotary knob **16**.

Playing tracks:
Turn rotary knob **16**. The selected track is highlighted in the track list.
The track is played provided it remains highlighted without change for 1 second or the rotary knob

16 is pressed.
After the rotary knob **16** has been pressed the system returns to the single CD main menu.

Track skip

Skipping to the next track:
Briefly press button **5**.

Skipping back to the start of the track:
Briefly press button **4**. The track skips back to the beginning.
If the elapsed track time is less than 10 seconds, the system skips back to the beginning of the previous track.

Notes
Briefly pressing the button **4** or **5** causes multiple tracks to be skipped forward or backward, respectively.

It is not possible to skip a track if the symbol ▦ is displayed on the left in the top line.

Fast forward/reverse
Press and hold button **4** or **5**.

Note
Fast forward/reverse is not possible if the symbol ▦ is displayed on the left in the top line.

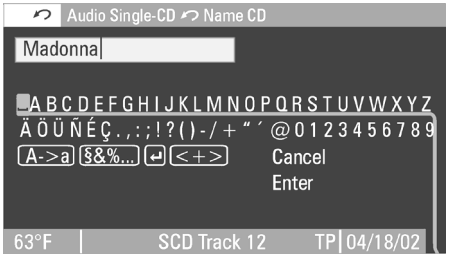


Fig. 3.21.

Name CD
A name can be assigned or an assigned name can be altered for the CD currently playing.

Using the rotary knob **16** select **Name CD**. The corresponding menu is displayed.
(Fig. 3.21.)
The menu contains a name field, the available characters and the options **Cancel** and **Enter**.

Note
The option **Name CD** cannot be selected if the inserted CD has CD text.

A name may contain a maximum of 20 characters. It is possible to assign names for a maximum of 30 CDs including the CD changer. If additional names are assigned, these will automatically overwrite the oldest name.
Please refer to Chapter 1.2.4. “Input menu operation” on page 11.

- **Cancel**
  Using the rotary knob **16** select **Cancel**. The assignment of the name is canceled.
  The unit switches back to the single CD main menu.

- **Enter**
  Using the rotary knob **16** select **Enter**. The entered name is stored in the PCM.
  The unit switches back to the single CD main menu.

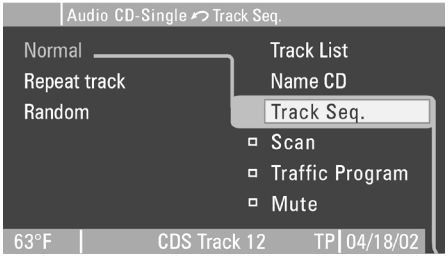


Fig. 3.22.

Track Seq.
The playback sequence of the individual tracks can be set.

Using the rotary knob **16** select **Track Seq**.
The functions **Normal**, **Repeat track** and **Random** are available for selection.
(Fig. 3.22.)

Switching function on/off
Select function using the rotary knob **16**.
The single CD main menu is then displayed.

The selected function can be seen in the status field.

- **Normal**
  The CD tracks are played successively. (Track 1, 2, 3, 4 etc.)
  The track sequence **Normal** is not displayed in the status field.

- **Repeat track**
  The current track is repeated.
  By pressing the button **4** or **5** the repeat function is canceled. Selecting another track also causes the function to be canceled.

- **Random**
  After activating the random function, the current track is played to the end. Then the other tracks are played in random order. (e.g. track 3, 8, 5, 11 etc.)

Scan
With this function active, each track on the CD is played for approx. 8 seconds.

By selecting **Scan** using the rotary knob **16** the scan function is switched on (☑) or off (☐).

Scanning can also be canceled by pressing the button **4** or **5** or pressing the rotary knob **16**.

However, a track on the CD that is already playing continues to play.

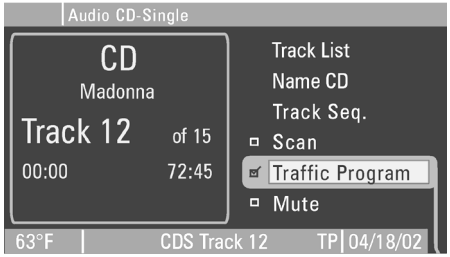


Fig. 3.23.

Traffic Program
By selecting **Traffic Program** using the rotary knob **16** the traffic program is switched on (☑) or off (☐).
When the traffic program is active, **TP** is displayed in the bottom line (Fig. 3.23.).

Traffic programs and the TP volume can be set in Audio Set.
Please refer to Chapter 3.3. “Audio Set” on page 26.

Current traffic announcements can be interrupted by pressing the volume control **7**.

Note
When this function is active, CD playback is interrupted by traffic announcements.

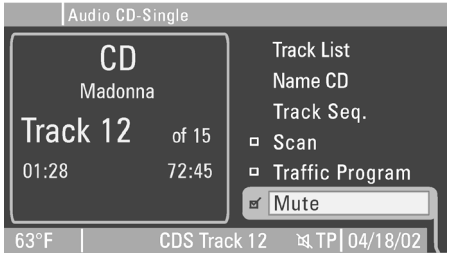


Fig. 3.24.

Mute
By selecting **Mute** using the rotary knob **16** the mute function is switched on (☑) or off (☐).

The mute symbol can be seen in the bottom line (loudspeaker crossed through, Fig. 3.24.).

Note
Navigation recommendations and traffic program announcements are still audible.

3.5. CD changer mode (optional equipment)

Operational readiness of CD changer
The CD changer is ready for operation as soon as the filled CD magazine is loaded. Always pay attention to the correct installation position and close the sliding cover after inserting the magazine. Further operation is performed via the PCM.

Loading/unloading magazine
To remove the CD magazine, open the sliding cover on the CD changer and press the eject button. The magazine is ejected and can be removed.
When inserting CDs into the magazine, please note the instructions printed on the magazine. The magazine must be inserted into the CD changer as far as possible.

Note
Incorrectly inserted CDs are not played.
To allow for the fastest possible changing of CDs, the magazine should be loaded successively, beginning with compartment 1.

Starting CD changer mode
With a connected CD changer, the CD changer mode can be started as follows:

- Press the CDC button **25**.
  CD playback starts at the point at which it was previously interrupted, e.g. by switching to FM mode.
  If there is no magazine in the CD changer or there are no CDs in the magazine, this bottom line displays **CD changer: no magazine** or **CD changer: no CD**.

Ending CD changer mode
- Press FM button **1** or AM button **2**. The unit switches to radio mode **or**
- press CD button **26**. This switches to single CD mode.

Instructions for compact disc (CD)
Skipping may occur if the CD is soiled. In order to ensure the best sound quality, please note the following information:

- Always touch the CD at the edges only. Never touch the unprinted side and keep the CD clean.
- Never stick anything on the CD.
- Protect the CDs against direct sunlight and from heat sources such as heaters etc.
- Before playing the CD, it should be cleaned with a special, commercially available cleaning cloth, wiping from the center outward. Solvents such as benzene, thinners or other commercially available cleaning agents and anti-static sprays must not be used.
- Do not bend CDs.
- The system may not be able to play copy-protected audio CDs or CDs with CD-ROM sections which do not correspond to the audio CD standard.

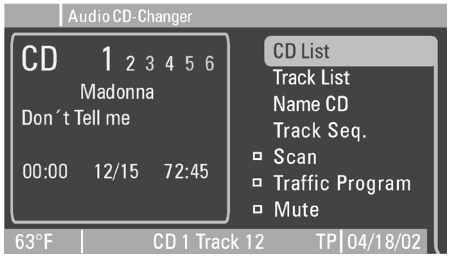


Fig. 3.25.

3.5.1. Explanation of the CD changer main menu

Press the AUDIO button **9**. The menus for CD changer operation are called up. (Fig. 3.25.)

The left-hand area of the menu contains a status field.
The following is displayed in the status field:

- The numbers **1** - **6** symbolize the CD magazine compartments.
  The magazine compartment number for the currently playing CD is displayed enlarged.
  Numbers given in gray represent empty magazine compartments.
- the self-assigned names or the CD text (if available).
- track name and track number (if available)
- number of tracks
- elapsed track time
- total playing time
- track sequence set.

In the right-hand area, the options **CD List**, **Track List**, **Name CD**, **Track Seq.**, **Scan**, **Traffic Program** and **Mute** are available.

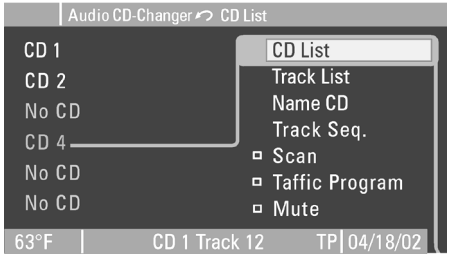


Fig. 3.26.

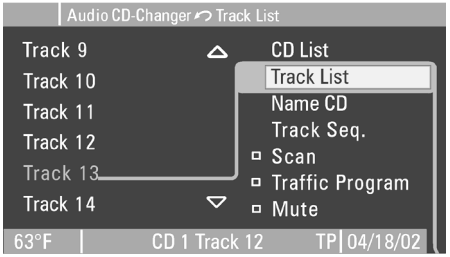


Fig. 3.27.

CD List
Press and hold buttons 1 to 6 in the numerical keypad **3** for longer than 1 second **or** select the option **CD List** using the rotary knob **16**. The CD track list is displayed on the left side of the display. (Fig. 3.26.)

The magazine compartment numbers or the CD names, if available, are displayed in the CD list. If a magazine compartment is empty, **No CD** is displayed.

Playing CD
Highlight a magazine compartment in the CD list by turning the rotary knob **16**.
The CD is played provided it remains highlighted without change for 1 second or the rotary knob **16** is pressed.
After the rotary knob **16** has been pressed, the system returns to the CD changer main menu.

Track list
Using the rotary knob **16** select **Track List**. The CD track list is displayed in the left-hand display area. (Fig. 3.27.)
The track numbers or the track names, if available, are displayed in the track list.

The two symbols **upward-pointing arrow** or **downward-pointing arrow** indicate that there are additional entries above and below the visible area, respectively. Continue turning rotary knob **16**.

Playing tracks:
Turn rotary knob **16**. The selected track is highlighted in the track list.
The track is played provided it remains highlighted without change for 1 second or the rotary knob **16** is pressed.
After the rotary knob **16** has been pressed the system returns to the single CD main menu.

Track skip

Skipping to the next track:
Briefly press button **5**.

Skipping back to the start of the track:
Briefly press button **4**. The track skips back to the beginning.
If the elapsed track time is less than 10 seconds, the system skips back to the beginning of the previous track.

Notes
Briefly pressing the button **4** or **5** causes multiple tracks to be skipped forward or backward, respectively.

It is not possible to skip a track if the symbol is displayed on the left in the top line.

Fast forward/reverse
Press and hold button **4** or **5**.

Note
Fast forward/reverse is not possible if the symbol is displayed on the left in the top line.

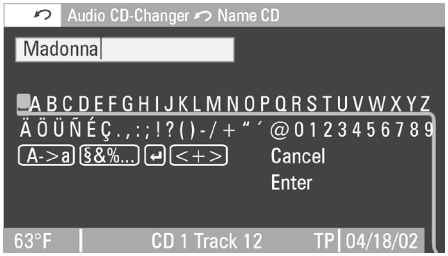


Fig. 3.28.

Name CD
A name can be assigned or an assigned name can be altered for the CD currently playing.

Using the rotary knob **16** select **Name CD**. The corresponding menu is displayed.
(Fig. 3.28.)

The menu contains a name field, the available characters and the options **Cancel** and **Enter**.

Note
The option **Name CD** cannot be selected if the inserted CD has CD text.

A name may contain a maximum of 20 characters. It is possible to assign names for a maximum of 30 CDs including the CD changer. If additional names are assigned, these will automatically overwrite the oldest name.

Please refer to Chapter 1.2.4. “Input menu operation” on page 11.

- **Cancel**
  Using the rotary knob **16** select **Cancel**. The assignment of the name is canceled.
  The unit switches back to the single CD main menu.

- **Enter**
  Using the rotary knob **16** select **Enter**. The entered name is stored in the PCM.
  The unit switches back to the CD changer main menu.

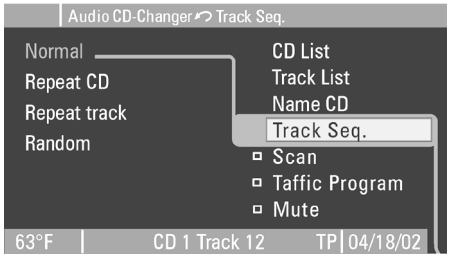


Fig. 3.29.

Track Seq.
The playback sequence of the individual tracks can be set.

Select **Track Seq.**.
The functions **Normal**, **Repeat CD**, **Repeat track** and **Random** are available for selection.
(Fig. 3.29.)

Switching the function on/off
Select function using the rotary knob **16**.
The CD changer main menu is then displayed.

The selected function can be seen in the status field.

- **Normal**
  The CDs and the CD tracks are played successively.
  The track sequence **Normal** is not displayed in the status field.
- **Repeat CD**
  The currently playing CD is repeated.
  Selecting another CD causes the function to be canceled.

- **Repeat track**
  The current track is repeated.
  By pressing the button **4** or **5** the repeat function is canceled. Selecting another CD or another track also causes the function to be canceled.

- **Random**
  After activating the random function, the current track is played to the end.
  Then all the tracks of all the CDs in the CD changer magazine are played in random order.

Scan
With this function activated, every track on the CD is played for approx. 8 seconds.

By selecting **Scan** using the rotary knob **16** the scan function is switched on (☑) or off (☐).

Scanning may also be canceled by pressing the buttons **4** or **5** or pressing the rotary knob **16**.

The track on the CD that has started playing continues to be played.

Traffic program
Please refer to Chapter “Traffic Program” on page 33.

Mute
Please refer to Chapter “Mute” on page 34.

4. Sound Settings (SOUND)

With the sound settings, the sound of the PCM can be set to suit your precise requirements via the bass, treble, balance and fader settings.

Requesting SOUND menu
Press SOUND button **10**.

The range of the display and functions for the sound settings depends on the vehicle model and equipment. All the features are described on the following pages. Therefore, in some cases, not all the described functions will be found in your PCM.

With your PCM, you can operate the various sound packages available:

- PCM with basic speakers
  In the Boxster with **basic speakers** one wideband speaker is fitted in the dashboard on the left and on the right.
  In the Coupe, two wideband speakers are also fitted in the rear.

- PCM with sound package
  The **sound package** enhances this wideband speaker through additional tweeters in the speaker module. The bass is transmitted through two enclosed speaker boxes in the doors. All speakers are operated via an external digital amplifier.

- PCM with Bose® Soundsystem
  The **Bose® Soundsystem** contains two two-way speaker modules on the right and left in the dashboard. In the Carrera two additional modules are fitted in the rear.
  The bass is provided by two bass reflex speakers in the doors and a subwoofer.
  In addition, a digital amplifier and a noise microphone are components of the Bose® Soundsystem.

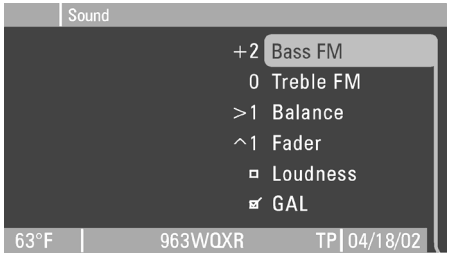


Fig. 4.1.

4.1. SOUND main function

The following options are available for operating the SOUND main function: **Bass**, **Treble**, **Balance**, **Fader**, **Loudness** and **GAL** or **Dyn. Volume** or **AudioPilot**. (Fig. 4.1.)
The numbers in front of the options correspond to the currently set values. The arrows next to the options **Fader** and **Balance** symbolize the direction in which the center of the sound is shifted.

The bass and treble settings are dependent on the source. Accordingly, the active source is also displayed here (e.g. bass FM)

Fig. 4.2.

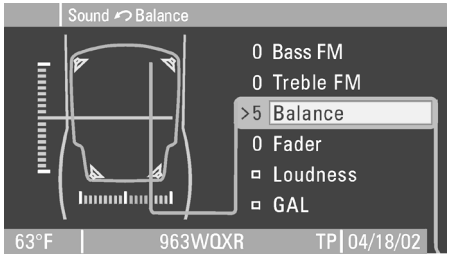


Fig. 4.3.

Bass
After selecting **Bass** set the bass. (Fig. 4.2.)
For this purpose, turn the rotary knob **16** until the desired setting has been reached. Then press the rotary knob **16**.

Treble
After selecting **Treble** make the desired setting.

Balance
Using the Balance settings, the volume distribution between the left and right speakers in the passenger compartment can be set.

After selecting **Balance** make the desired balance setting. (Fig. 4.3.)

Fader (vehicle dependent)
Using the Fader settings, the volume distribution between the front and rear speakers in the passenger compartment can be set.

After selecting **Fader** make the desired fader setting.

Loudness (with basic speakers or sound package)
Loudness increases the sound volume by increasing the bass.
This is especially suitable for low-volume settings.

GAL (with basic speakers)
GAL (speed dependent volume) is a function of the PCM which automatically regulates the volume as a function of the vehicle speed. This results in compensation of driving noises produced at higher speeds.

The extent of the volume adaptation can be set in Sound Set.

Dyn. Volume (with sound package)
Through **Dyn. Volume** the volume of the loud and quiet passages of the active audio source is automatically adapted as driving speed changes (quiet passages louder).

AudioPilot (with Bose® Soundsystem)
This patented Bose® technology sets new standards in noise compensation for vehicle audio systems. The noise level is monitored continuously via a microphone inside the vehicle - both the music as well as any undesirable noises, both from inside and outside, whether speed dependent or not.
A filter analyzes interference and adapts the playback of the music permanently and automatically in real time through algorithm compensation, not just in terms of volume, but also in terms of the dynamics of the overall frequency spectrum.
The music is no longer overlaid by noises and the listener enjoys an undistorted listening experience.

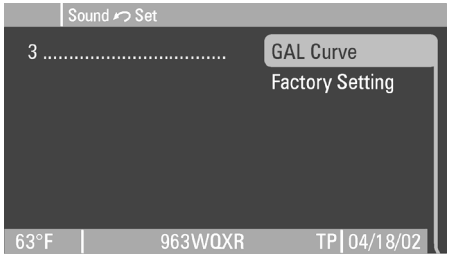


Fig. 4.4.

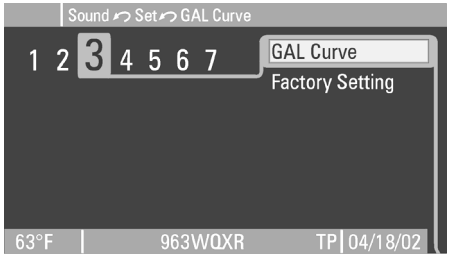


Fig. 4.5.

4.2. Sound Set

Settings for the GAL and for the listening position (depending on the equipment) can be made and the sound settings can be reset to the factory settings in Sound Set.

From the active sound settings main function, Sound Set is called up by pressing the Set button **18** (as an example see Fig. 4.4.).

GAL Curve (with basic speakers)
With the **GAL Curve**, the extent of the volume adaptation can be set according to the vehicle speed. (Fig. 4.5.)

- GAL curve **1** - slight volume adaptation
- GAL curve **7** - large volume adaptation

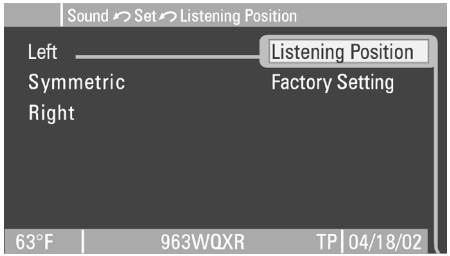


Fig. 4.6.

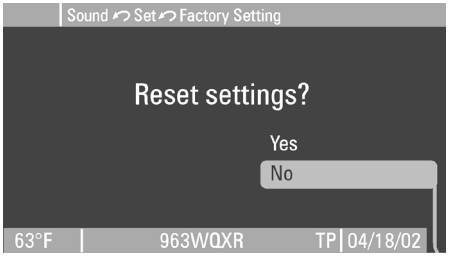


Fig. 4.7.

Listening position (with sound package and Bose® Soundsystem)
To achieve optimum sound, the listening position can be adapted to the current seating position. (Fig. 4.6.)

The following setting options are available:

- **Left**
  The sound position is located on the left.

- **Symmetric**
  The sound position is located symmetrically.

- **Right**
  The sound position is located on the right.

Factory Setting
After selecting **Factory Setting** the settings can be reset to predefined values. (Fig. 4.7.)
Selecting **Yes** will delete your settings.

5. Organizer (ORG)

The Organizer function can be used to create and organize an address book.

Requesting ORG main function
Press ORG button **11**.

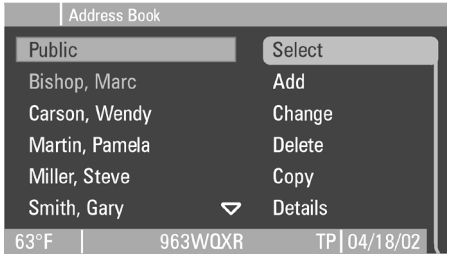


Fig. 5.1.

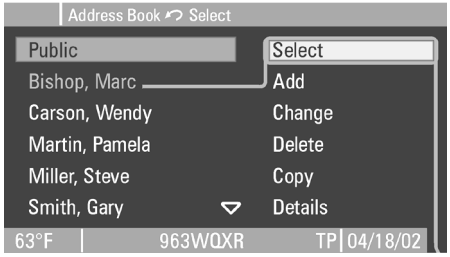


Fig. 5.2.

5.1. Explanation of the ORG main menu

The left-hand area displays the address book entries already stored.

In the right-hand area, the options **Select**, **Add**, **Change**, **Delete**, **Copy** and **Details** are available for further operation of the system. (Fig. 5.1.)

5.1.1. Selecting an address book entry

- Select **Select**. This opens the address book.
- Move the selection pointer to the desired entry by turning the rotary knob **16**. (Fig. 5.2.)
- Press the rotary knob **16**.
  The highlighted entry is selected.

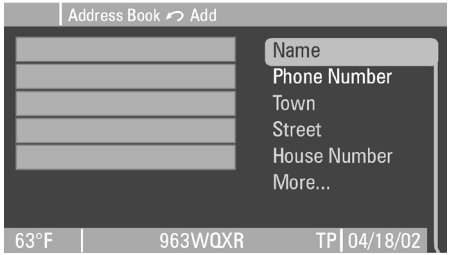


Fig. 5.3.

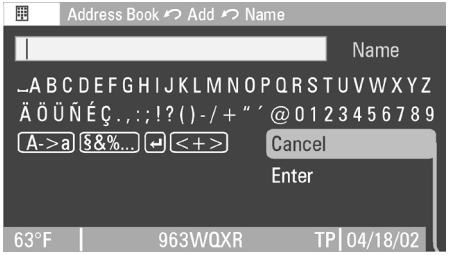


Fig. 5.4.

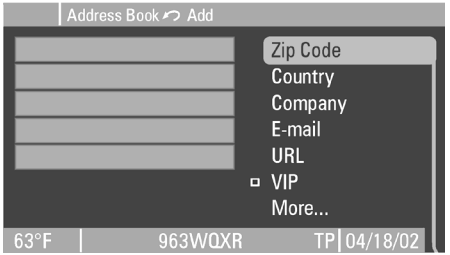


Fig. 5.5.

5.1.2. Adding address book entry

Select the option **Add**.
A new address book entry is created.
(Fig. 5.3.)

An address book entry consists of the elements **Name**, **Phone Number**, **City**, **Street** and **House Number**. (Fig. 5.3.)
After selecting **More...** the elements **Zip Code**, **Country**, **Company**, **E-mail** and **URL** can be requested for entry. (Fig. 5.5.)

Note
Not all the elements of an address book entry have to be completed.

After selecting the desired option, the associated input menu is displayed.
The corresponding data can now be entered.
Please refer to Chapter 1.2.4. “Input menu operation” on page 11.

After selecting **Enter** the entry is stored.

Using **VIP** (Very Important Person) you can identify important entries in the address book.

Activate ☑ or deactivate (☐) the VIP function by pressing the rotary knob **17**. (Fig. 5.5.)

You can get the PCM to display a list with all the VIP entries.
Please refer to Chapter 5.2.1. “Configuring address book” on page 46.

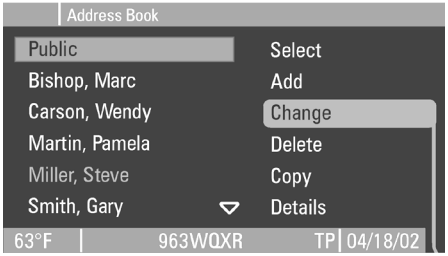


Fig. 5.6.

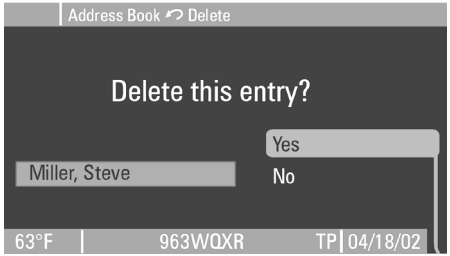


Fig. 5.7.

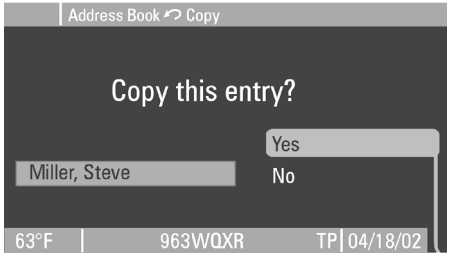


Fig. 5.8.

5.1.3. Changing address book entry

- Select the address book entry to be edited.
- Select **Change**. (Fig. 5.6.)
- Change the selected address book entry. Please refer to Chapter 5.1.2. “Adding address book entry” on page 44.

5.1.4. Deleting address book entry

Select the address book entry to be deleted.
Select **Delete**.
The query **Delete this entry?** is displayed.
For checking purposes, the name is displayed.
The name field of the entry must be completed.
(Fig. 5.7.)

Yes
Deletes the displayed entry from the address book.

No
The entry is not deleted. The menu returns to the address book.

5.1.5. Copying address book entry

You can copy an address book entry for rapid duplication.

Select the address book entry to be copied.
Select **Copy**.
The query **Copy this entry?** is displayed.
For checking purposes, the name is displayed.
The name field of the entry must be completed.
(Fig. 5.8.)

Yes
Copies the displayed entry into the address book under the same name. The entry can then be edited.

No
The entry is not copied. The menu returns to the address book.

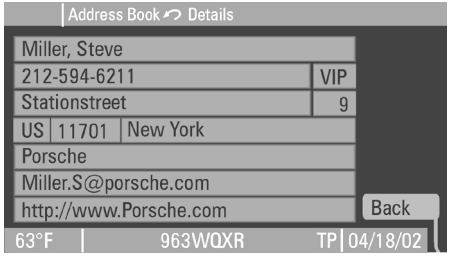


Fig. 5.9.

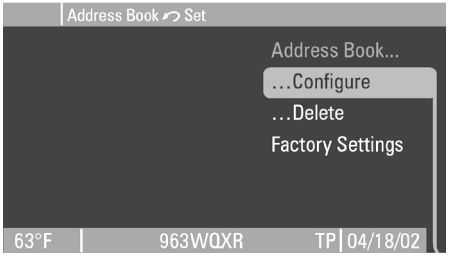


Fig. 5.10.

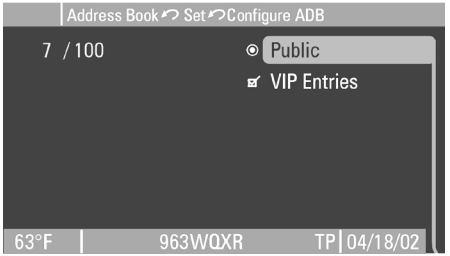


Fig. 5.11.

5.1.6. Displaying address book entry details

- Select the desired address book entry.

- Select **Details**.
  The complete address book entry with all the details is displayed.

5.2. ORG Set

Settings relating to the address book can be made in ORG Set.

Requesting ORG Set
From the active Organizer main function, press the Set button **18**. (Fig. 5.10.)

5.2.1. Configuring address book

After selecting **...Configure** you can select either **Public** or **VIP Entries**. (Fig. 5.11.)

- **Public**
  The entries in the public address book are displayed in the address book.
- **VIP Entries**
  Either all the entries (☐) or just those entries in the address book identified with VIP (☑) are displayed.

In front of the respective entries, the number of entries stored in the respective address book as well as the maximum number of possible entries are given.
(E.g.: 7/100)

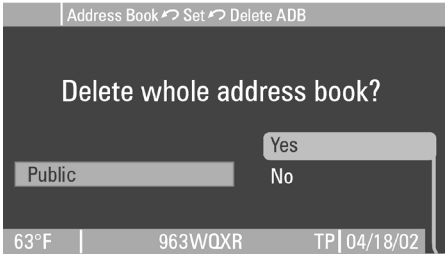


Fig. 5.12.

5.2.2. Deleting address book

You can delete all the address book entries.

Select **Delete**.
The query **Delete whole address book?** is displayed. (Fig. 5.12.)

Yes
Deletes all the entries from the address book.

No
The entries are not deleted. The menu returns to the address book.

5.2.3. Factory Setting

After selecting **Factory Settings** the settings can be reset to predefined values.
Selecting **Yes** will delete your settings.

6. Information (INFO)

Information on the current position can be requested.

Requesting information menu
Press INFO button **13**.

Fig. 6.1.

The following will be displayed (Fig. 6.1.):

- The current destination and the distance, if route guidance is active.
- The current vehicle position, where possible with a street name.
- The current position coordinates.
- The number of satellites currently received and the vehicle's height above sea level at the current time. The height is derived from the GPS information and may fluctuate.

7. Trip Computer (TRIP)

The trip computer (TRIP) provides a variety of useful travel data, such as fuel mileage, average speed or fuel consumption.

Requesting TRIP main function
Press the TRIP button **14**. This calls up the trip computer menus.

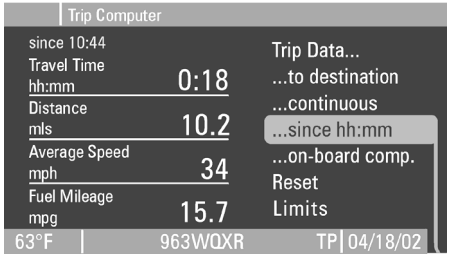


Fig. 7.1.

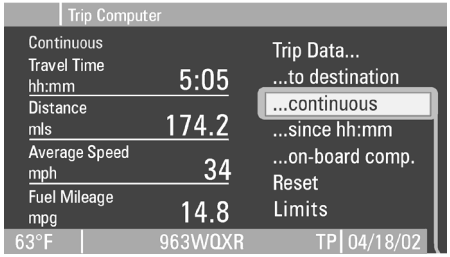


Fig. 7.2.

7.1. TRIP main menu

Depending on the settings under **Trip Data...** the following trip data is displayed:

- the fuel range,
- the distance to destination,
- the arrival time,
- the travel time so far,
- the distance so far,
- the average speed and
- the fuel mileage.

7.1.1. Displaying trip data

To set the display range of the trip computer, one of the following displays can be selected:

- **...to destination**,
- **...continuous**,
- **...since hh:mm** and
- **...on-board comp.** (same data as in the vehicle computer).

...to destination
The following trip data is displayed:

- Distance to destination: displays the distance to the destination calculated by the navigation system.
- Arrival time: displays the estimated time of arrival calculated by the navigation system.
- Fuel mileage: the fuel range is calculated from the current fuel tank level and the fuel mileage.

...continuous
The trip data is totaled continuously until reset. Even after relatively long periods out of use (with the ignition key removed), the trip data is acquired continuously.
The following trip data is displayed:

- Travel time: displays the travel time since the last reset.
- Distance: displays the distance covered since the last reset.
- Average speed: displays the average speed determined from the travel time and distance since the last reset.
- Fuel mileage: displays the fuel mileage since the last reset.

...since hh:mm
The trip data is always reset automatically when the vehicle has not been used for 2 hours (with the ignition key removed).
The following trip data is displayed:

- Travel time: displays the travel time since the last reset.
- Distance: displays the distance covered since the last reset.
- Average speed: displays the average speed determined from the travel time and distance since the last reset.
- Fuel mileage: displays the fuel mileage since the last reset.

...on-board comp.
The following trip data is made available by the vehicle's on-board computer:

- Distance: displays the total distance traveled.
- Average speed: displays the average speed determined from the travel time and distance.
- Fuel mileage: displays the fuel mileage.
- Remaining fuel range: The fuel range is calculated from the current fuel tank level and the fuel mileage.

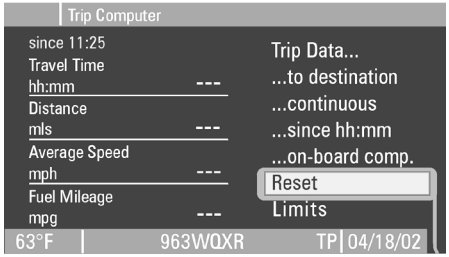


Fig. 7.3.

7.1.2. Reset

By selecting **Reset** (pressing for longer than 1 second) the calculation of the trip data can be restarted at any time for **...continuous** and **...since hh:mm**. (Fig. 7.3.)

Note
If under **Trip Data** the setting **...to destination** is set, **Reset** cannot be selected.

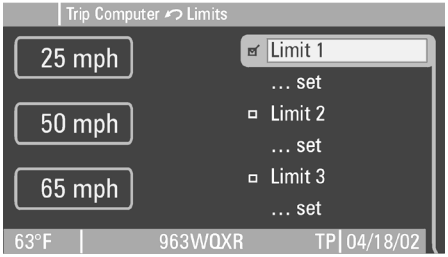


Fig. 7.4.

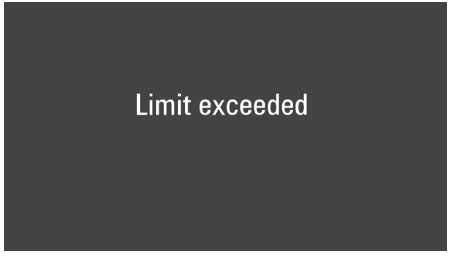


Fig. 7.5.

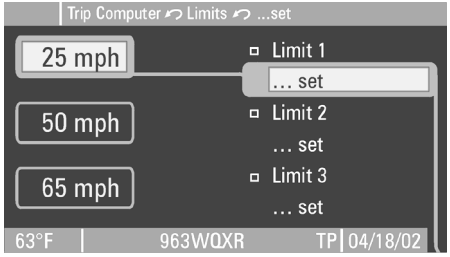


Fig. 7.6.

7.1.3. Limits

Limits are adjustable speed values which, when exceeded, trigger a visual and acoustic signal.

You have the option of stipulating or activating up to 3 different speed limits in the PCM. (Fig. 7.4.)

Requesting limits menu
Select the option **Limits** in the TRIP main menu.

Activating/deactivating limit
The limit must first be activated in order to receive a visual and acoustic signal when the set speed has been exceeded.

Using the rotary knob **16** select the desired limit **Limit 1**, **Limit 2** or **Limit 3.** (Fig. 7.4.)

If the vehicle speed exceeds the set speed value, an acoustic signal is given. A message appears in the display for a short time. (Fig. 7.5.)

Note
As a result of the rapid acceleration of your vehicle, a message indicating that the activated limit has been exceeded may occur after a delay.

Setting limit
- Select the option **...set**. (Fig. 7.6.)

- Turn the rotary knob **16** in order to enter the speed value.

- Press the rotary knob **16**. The value entered is applied.

Note
The set speed limit must then be activated. Please refer to Chapter “Activating/deactivating limit” on page 51.

7.2. TRIP Set

The TRIP settings can be reset to the factory settings in TRIP Set.

Requesting TRIP Set
When the TRIP main function is active, press the Set button **18**.

7.2.1. Factory Setting

After selecting **Factory Setting** the settings can be reset to predefined values.
Selecting **Yes** will delete your settings.

8. Navigation (NAVI)

Please note the instructions on operating and traffic safety on Page 4.

With its use of visual and acoustic driving recommendations, the integrated navigation module (NAVI) allows you to get to your destination quickly, comfortably and without problems even without local knowledge. In addition, points of interest, such as hotels, tourist attractions, leisure facilities, the closest gas stations or Porsche dealerships, can also be requested.

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 method for determining a position.

For calculating the vehicle position, other vehicle signals (e.g. speed) are analyzed and processed in the navigation computer.
This enables the system to be corrected automatically in terms of position, signal changes resulting from a wheel change (modified tire diameter), temperature, or fluctuations in air pressure.

Note:

- The GPS reception may be restricted under trees or between tall buildings. GPS reception is not possible in parking garages, tunnels etc.
- After an interruption of the vehicle on-board voltage (e.g. vehicle battery has been replaced) it may take up to 15 minutes for the GPS to initialize again.
- After transporting the vehicle - for example by ferry - it may take a few minutes after switching on for the current GPS position to be determined.
- Without GPS reception, the system calculates the current position with the aid of vehicle signals and thus remains functional in the event of temporary poor reception situations.
- The GPS antenna must not be covered by metal or damp objects.
- After starting up the navigation system for the first time, fine calibration requires approx. 30 mls.
- A high wheel slip (spinning of the wheels on snow) may result in temporary incorrect positioning.
- After changing tires (e.g. summer/winter tires), fine calibration is only attained again after up to 30 mls.
- During fine calibration, full positioning accuracy is not yet attained.

Navigation CD
The navigation system requires the navigation CD for entering destinations and calculating routes. If this is not in the drive, the PCM will acoustically and visually request you to insert the CD.

A colored CD symbol in the bottom line or in the bottom area of the map display indicates that the navigation system is accessing the inserted navigation CD.
If a CD symbol is not visible, the navigation CD can be removed and an audio CD may be played.

Note
If the navigation CD has been removed prematurely, this may result in the route calculation being interrupted.

The navigation system may also require access to the navigation CD when a deviation from the route proposed by the navigation system is made.

If the navigation CD is required, this CD must be inserted into the CD slot **23** of the built-in CD drive with the **printed side upward**.

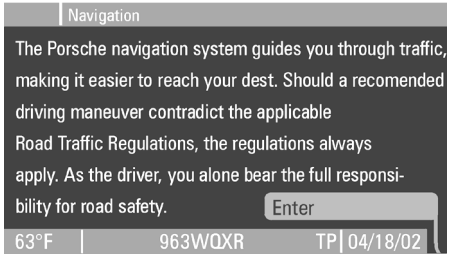


Fig. 8.1.

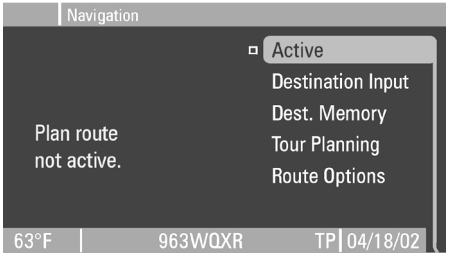


Fig. 8.2.

Fig. 8.3.

8.1. Navigation safety instructions

The PCM advises that the navigation system serves only to assist the driver.

The information (Fig. 8.1.) is given:

- After switching on the PCM and then selecting the NAVI main function.
- If route guidance was active before the PCM was switched off.

Press the rotary knob **16**. The information is confirmed.

8.2. Explanation of the NAVI main menu

Requesting NAVI main function
Press the NAVI button **15**.

In the NAVI main menu, route guidance information or the message **Plan route not active.** is displayed in the left-hand area of the menu.

The options **Active** or **Active (Tour)**, **Destination Input**, **Dest. Memory**, **Tour Planning** and **Route Options** are available in the right-hand area of the menu for operating the system (Fig. 8.2.).

8.3. Switching route guidance on/off

Select **Active** or **Active (Tour)** using the rotary knob **16**. Route guidance is switched on (☑) or off (☐).

Active is displayed for a single destination.
Active (Tour) is displayed if a tour is started or is to be continued.
Please refer to Chapter 8.9. “Tour planning” on page 68

8.4. Destination input

Select **Destination input** using the rotary knob **16**. The destination input menu is opened. (Fig. 8.3.)

The destination entered last is given in the left-hand area of the display. In the right-hand area of the display, the options **Country**, **Address**, **Intersect.**, **City Cent.**, **POI**, **Map Cursor** and **Coordinates** are available. (Fig. 8.3.)

- After selecting **Country** the destination country can be chosen.
  Please refer to Chapter 8.4.1. “Selecting country” on page 56.

- After selecting **Address** a complete address (city, street and house number) can be entered.
  Please refer to Chapter 8.4.2. “Entering address” on page 56.

- After selecting **Intersect.** a destination can be entered for which the city, destination street and an intersecting street are known. Please refer to Chapter 8.4.3. “Entering intersection” on page 58.

- After selecting **City Cent.** the center of a particular city can be chosen.
  Please refer to Chapter 8.4.4. “Entering city center” on page 59.

- After selecting **POI** special points of interest (tourist destinations) can be chosen.
  Please refer to Chapter 8.4.5. “Entering POI” on page 60.

- After selecting **Map Cursor** a destination can be identified using the cursor in the map display.
  Please refer to Chapter 8.4.6. “Destination input via cursor” on page 61.

- After selecting **Coordinates** a destination can be input using geographical coordinates.
  Please refer to Chapter 8.4.7. “Destination input via coordinates” on page 63.

Notes

- If route guidance is already active, **Destination Input** cannot be selected. End the current route guidance first.
- The destination input is only possible with the data available on the navigation CD.
  There may be restrictions in terms of the details regarding street names, house numbers, city center and points of interest.
- Work is constantly being carried out on further data acquisition and updating. Information on new/updated software can be obtained from your Porsche dealership.

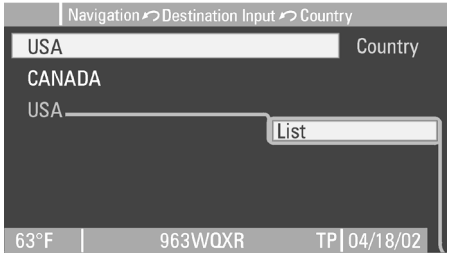


Fig. 8.4.

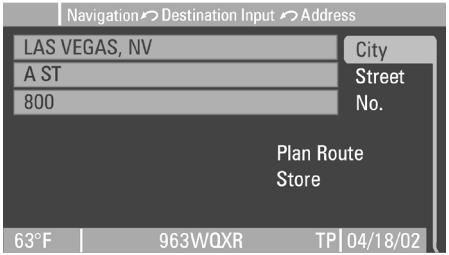


Fig. 8.5.

8.4.1. Selecting country

The destination country must be selected to input a destination address.

After selecting **Country** by turning and pressing the rotary knob **16** the desired country can be chosen from the list displayed.

8.4.2. Entering address

A complete address (city, street and house number) can be entered as the destination.

Select **Address** using the rotary knob **16**. The address input menu is opened. (Fig. 8.5.)

The information of the address entered last is displayed.
The options **City**, **Street**, **No.**, **Plan Route** and **Store** are available for operating the system.

Note
In order to activate route guidance, at least the city has to be entered.

Plan Route
Select **Plan Route**. Route calculation to the destination entered is started. The NAVI main menu opens.

Store
Select **Store**. The destination memory menu opens.
You can store the previously entered destination in the destination memory under any name.
Please refer to Chapter 8.6. “Destination memory” on page 64.

Fig. 8.6.

Entering city
Select **City** using the rotary knob **16**. The city input menu is opened. (Fig. 8.6.)

By **turning** the rotary knob **16** the desired characters can be selected.
By **pressing** the rotary knob **16** the selected character is transferred to the entry field.

Note
The selection of the characters available is reduced to the input of possible characters. Characters that are not possible cannot be selected.

To obtain the options **List**, **Enter** and **Cancel**, the highlighting option must be turned to the right using the rotary knob **16** until the first option is highlighted.
The individual options are activated by pressing the rotary knob **16**.

- **List**
  Select **List**. The city list that corresponds to the previous entry is called up.
  By turning the rotary knob **16** highlight the desired city in the city list.
  By pressing the rotary knob **16** select the highlighted city.
  The selected city is displayed in the input line.

- **Enter**
  Select **Enter**. The city entry is confirmed.

- **Cancel**
  Select **Cancel**.
  The entry is rejected.

Entering street
After entering the city, the street is input.

Select **Street** using the rotary knob **16**. The street input menu is opened.

Note
It is only possible to select **Street** if corresponding data is stored on the navigation CD.
The street name is entered in the same way as described above for entering the city.

- **List**
  Select **List**. The street list that corresponds to the previous entry is called up. By turning the rotary knob **16** highlight the desired street in the street list.
  By pressing the rotary knob **16** select the highlighted street.
  The selected street is displayed in the input line.

- **Enter**
  Select **Enter**. The street entry is confirmed.

- **Cancel**
  Select **Cancel.**
  The entry is rejected.

US english

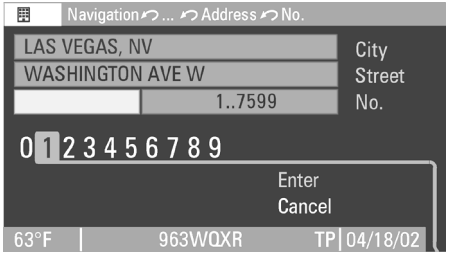


Fig. 8.7.

Entering house number
After entering the street, the house number is input.
Select **No.** using the rotary knob **16**. The house number input menu is opened.
(Fig. 8.7.)

Note
It is only possible to select **No.** if corresponding data is stored on the navigation CD.

Selecting characters
By turning the rotary knob **16** select the individual characters.
By pressing the rotary knob **16** the selected character is transferred to the entry field.

Note
The house number can also be entered using the buttons of the numerical keypad **3**.

The selection of the characters available is reduced to the input of possible characters. Characters that are not possible cannot be selected.

To obtain the options **Enter** and **Cancel**, the option highlight must be turned to the right **16** until the first option is highlighted. The individual options are activated by pressing the rotary knob **16**.

- **Enter**
  Select **Enter**. The house number entry is confirmed.
  The menu jumps back to the address input.
  (Fig. 8.5.)
- **Cancel**
  Select **Cancel**.
  The entry is rejected.

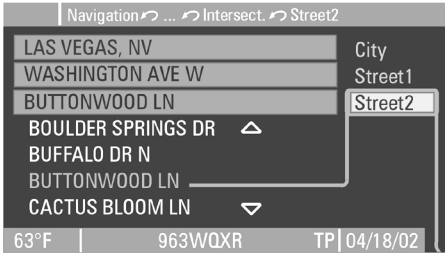


Fig. 8.8.

8.4.3. Entering intersection

The city, destination street and an intersecting street can be entered as the destination.

Select **Intersect.** using the rotary knob **16**. The intersection input menu is opened.
The details of the address entered last are displayed.

The options **City**, **Street1**, **Street2**, **Plan Route** and **Store** are available.

Note
In order to activate route guidance, at least the city has to be entered.

Entering city
Select **City** using the rotary knob **16**.
The city input menu is opened. You can enter the destination.
Please refer to Chapter "Entering city" on page 57.

Entering street1
After entering the city, the street is input.

Select **Street1** using the rotary knob **16**. The street input menu is opened.
You can enter the destination street.
Please refer to Chapter "Entering street" on page 57.

Entering street2
After entering the destination street, an intersecting street can be selected. (Fig. 8.8.)
Select **Street2**.
By turning the rotary knob **16** select the desired intersecting street from the list.
The selected street is transferred by pressing the rotary knob **16**.

Plan Route
Select **Plan Route**. Route calculation to the destination entered is started.
The NAVI main menu opens.

Store
Select **Store**. The destination memory menu is called up. The destination previously entered can be stored in the destination memory under any name.
Please refer to Chapter 8.6. "Destination memory" on page 64.

8.4.4. Entering city center

With larger cities or communities there are more than one center. If route guidance is to navigate to one of these centers, the place name with the relevant center can be selected.

Select **City Cent.** using the rotary knob **16**. The center input menu is opened.
Data on the address entered last is displayed.

The options **City**, **City Cent.**, **Plan Route** and **Store** are available.

Note
In order to activate route guidance, at least the city has to be entered.

- Select **City** using the rotary knob **16**. The city input menu is opened.
  Please refer to Chapter "Entering city" on page 57.

- **Entering center:**
  Select **City Cent.** using the rotary knob **16**.
  The center input menu is opened.
  Please refer to Chapter "Entering city" on page 57.
  If less than 10 centers are available, the system will switch immediately to the list selection. The center can be selected from the list.

- **Plan route**
  Select **Plan Route**. Route calculation to the destination entered is started.
  The NAVI main menu opens.

- **Store**
  Select **Store**.
  The destination memory menu is called up. The destination previously entered can be stored in the destination memory under any name.
  Please refer to Chapter 8.6. "Destination memory" on page 64.

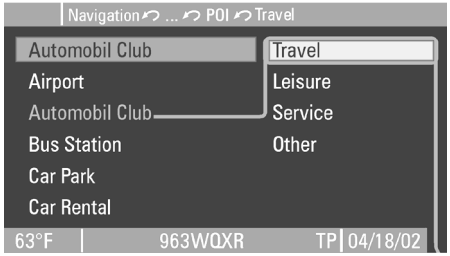


Fig. 8.9.

8.4.5. Entering POI

Corresponding data on the navigation CD is available under the categories **Travel**, **Leisure**, **Service** and **Other**.

Select **POI** using the rotary knob **16**. The POI selection menu is opened. (Fig. 8.9.)
After selecting one of the categories, you can select the desired type of POI from the list.

- **Travel**
  Select **Travel**.
  A list with the types of POI available, such as train station, airport, hotel, is displayed.
  Using the rotary knob **16** select the desired type of POI.

- **Leisure**
  Select **Leisure**.
  A list with the types of POI available, such as shops, sports facilities, tourist attractions, restaurants, is displayed.
  Using the rotary knob **16** select the desired type of POI.

- **Service**
  Select **Service**.
  A list with the types of POI available, such as Porsche dealerships (Porsche Service) and gas stations, is displayed.
  Using the rotary knob **16** select the desired type of POI.

- **Other**
  Select **Other**.
  A list with the types of POI available, such as companies, hospitals, city halls, exhibition centers, is displayed.
  Using the rotary knob **16** select the desired type of POI.

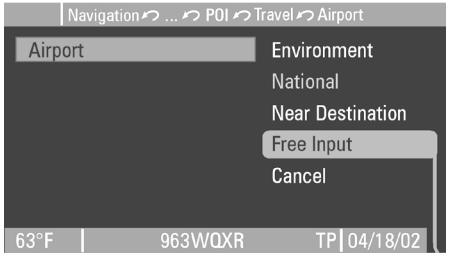


Fig. 8.10.

Position of POI
After selecting the type of POI, the following settings can be made:

- **Environment**
  By selecting **Environment** the POIs in the current vicinity of the vehicle are searched and listed.

- **National**
  By selecting **National** the POIs throughout the country are searched and listed.

  Note
  The option **National** is not available for all types of POI.

- **Near Destination**
  By selecting **Near Destination** the POIs in the vicinity of the destination previously entered are searched and listed.

- **Free Input**
  After selecting **Free Input** a city can be entered. The POIs are displayed for the city entered.
  Please refer to Chapter "Entering city" on page 57.
- A POI can be selected from the list displayed by turning the rotary knob **16**.
- The POI can be adopted by pressing the rotary knob **16**.

In the status lines above the list the corresponding address of the POI, the distance as the crow flies and the direction in which POI is located are displayed, if available.

Note
The air line distance for **Near Destination** relates to the direct distance from the destination to the selected POI.
With all other options, the air line distance is calculated from the current location.

By selecting **Info** additional information on the selected POI is displayed.

In many cases, the telephone number for the POI will be displayed.

Starting navigation
Select **Plan Route**. Route guidance to the selected POI is started.

Note
No claims are made regarding the completeness of the navigation CD used. The POIs displayed are merely data stored on the navigation CD.

Fig. 8.11.

8.4.6. Destination input via cursor

You can also select a destination from the navigation map using a cursor.

Note
Selecting using the map cursor is only possible if the navigation CD is inserted.

Select **Map Cursor** using the rotary knob **16**. The map display is opened.
A cursor is displayed by means of a rectangle in the center.

In the left-hand area of the display, a zoom setting and, if available, the city or street information corresponding to the center of the map cursor are displayed.
The bottom right-hand area of the display contains the currently set map scale. (Fig. 8.11.)

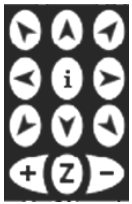
Fig. 8.12.

By changing the zoom setting and moving the map cursor, a destination can be selected using the cursor.
Please refer to Chapter "Moving cursor" on page 62.

In order to select a destination from the map, a navigable position (e.g. a street) must be selected in the map. For this purpose, select the smallest zoom setting.
Just a small white box is then displayed in the center of the cursor.
(Fig. 8.12.)

Moving cursor
In order to select a destination from the map, the cursor can be moved by pressing the individual buttons of the numerical keypad **3**.

After selecting **Map Cursor** the way in which the map is moved using the buttons of the numerical keypad **3** is displayed briefly in the left-hand area of the display.



The buttons on the numerical keypad **3** are assigned the following functions:

Button 1 - moves to the top left
Button 2 - moves to the top
Button 3 - moves to the top right
Button 4 - moves to the left
Button 5 - switches information on/off
Button 6 - moves to the right
Button 7 - moves to the bottom left
Button 8 - moves to the bottom
Button 9 - moves to the bottom right

Changing zoom setting
- To change the zoom setting, turn the rotary knob **16 or** press the buttons **4** and **5**.
- By pressing the button 0 on the numerical keypad **3 or** by pressing the rotary knob **16** the map is displayed in the previously selected zoom setting.

Fig. 8.13.

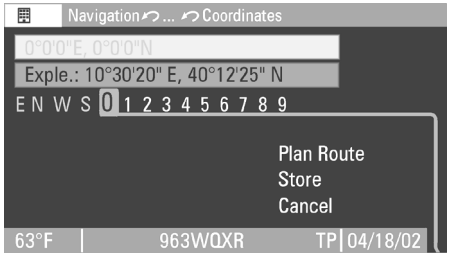


Fig. 8.14.

Starting route guidance

- Press the rotary knob **16** or select button 0 on the numerical keypad **3.** The menu for starting route guidance is called up. (Fig. 8.13.)
- Select **Plan Route**. Route guidance to the previously selected city in the map is started.
- After selecting **Set Map** the current map segment is displayed in the map display regardless of e.g. active navigation or the current location. In order to display the current location again, the display must be reoriented. Please refer to Chapter 8.11. “Map display” on page 70.
- Select **Store**. The selected destination can be stored in the destination memory under any name.
  Please refer to Chapter 8.6.4. “Storing destination” on page 66.

8.4.7. Destination input via coordinates

If the geographical coordinates are known for a destination, these can be used for destination input.

Select **Coordinates** using the rotary knob **16**.
The coordinates input menu is opened.
Enter the coordinates as shown in the example. (Fig. 8.14.)

The input is made using the rotary knob **16** or by entry via the numerical keypad **3**.

By pressing button **4** or button **5** the input cursor can be moved to the left or right, respectively.

Once the coordinates have been entered completely, navigation can be started by selecting the option **Plan Route**.

After selecting **Store** the entered coordinates can be stored in the destination memory under any name.
Please refer to Chapter 8.6.4. “Storing destination” on page 66.

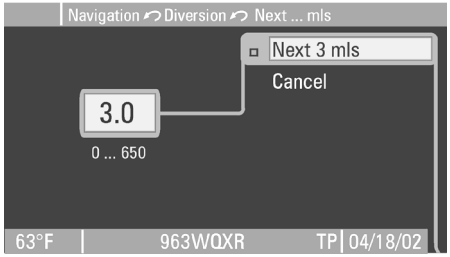


Fig. 8.15.

8.5. Diversion

The Diversion function can be used to block a variable route segment.
The PCM calculates an alternative route segment (e.g. in a traffic jam).
A route can only be blocked when route guidance is active.

Activating diversion
Press the Diversion button **20**. The diversion menu is called up.
After selecting **Next ... mls** the length of the route segment to be blocked can be set by turning the rotary knob **16**. (Fig. 8.15.)

The remaining distance to the destination is displayed under the length of the route segment to be blocked.

By pressing the rotary knob **16** the set length of the route segment to be blocked is confirmed.
The route is automatically recalculated. The diversion menu is closed.

Deactivating diversion
If an active block is to be ended early, the option **Next ... mls** must be deactivated in the diversion menu using the rotary knob **16**.
An active block is recognized from the symbol ☑ in front of the option **Next ... mls**.

Note
The Diversion function can only be activated during active route guidance.

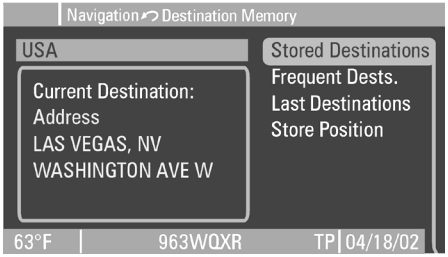


Fig. 8.16.

8.6. Destination memory

In the destination memory, you have the option of requesting stored destinations quickly and conveniently as well as starting route guidance.

Select **Dest. Memory** using the rotary knob **17**.
The destination memory menu is opened.
(Fig. 8.16.)
The destination entered last is displayed in the left-hand area of the display.
The right-hand area contains the available options.

- **Stored Destinations**
  This memory contains the destinations stored under any name in alphabetical order. A maximum of 50 destinations can be stored.

- **Frequent Dests.**
  This memory contains the last destinations driven to in the frequency of route guidance.
  A maximum of 50 destinations can be stored.

- **Last destinations**
  This memory contains the last destinations driven to. A maximum of 50 destinations can be stored.

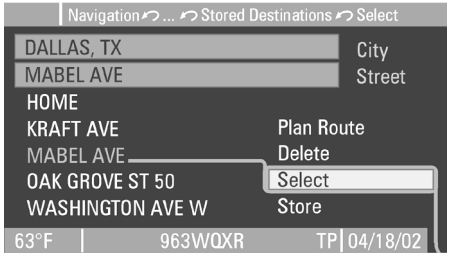


Fig. 8.17.

Selecting **Stored Destinations**, **Frequent Dests.** or **Last Destinations** in the destination memory menu opens the corresponding memory. (E.g. Stored destinations Fig. 8.17.)

The entries stored are given in the left-hand area of the display.
In the status fields, the address (city and, if available, street) of the entry selected are displayed.
For further operation of the system, the options **Plan Route**, **Delete**, **Select** and **Store** are available.

- **Plan Route**
  Please refer to Chapter 8.6.1. “Starting route guidance to a stored destination” on page 65.
- **Delete**
  Please refer to Chapter 8.6.2. “Deleting destination” on page 65.
- **Select**
  Please refer to Chapter 8.6.3. “Selecting destination from destination memory” on page 66.
- **Store**
  Please refer to Chapter 8.6.4. “Storing destination” on page 66.

8.6.1. Starting route guidance to a stored destination

You can start route guidance to one of the stored entries (**Stored Destinations**, **Frequent Dests.**, **Last Destinations**).

- Select the desired destination.
- Select **Plan Route**.
  Route guidance to the destination selected is started and the route is calculated.

8.6.2. Deleting destination

You can delete individual entries from one of the memories (**Stored Destinations**, **Frequent Dests.**, **Last Destinations**).

- Select the destination to be deleted.
- Select **Delete**.
  The query **Delete?** is made.
  By selecting **Yes** the selected entry will be deleted.

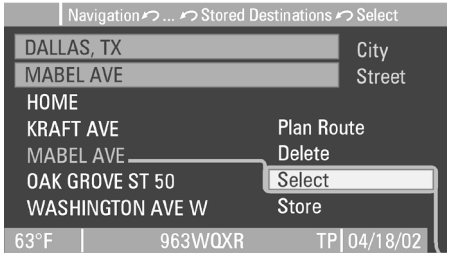


Fig. 8.18.

Fig. 8.19.

Fig. 8.20.

8.6.3. Selecting destination from destination memory

- Select the desired memory. (**Stored Destinations**, **Frequent Dests.**, **Last Destinations**) Then select **Select**. (Fig. 8.18.)
- By turning the rotary knob **16** highlight the desired memory entry.
- By pressing the rotary knob **16** select the highlighted entry.

8.6.4. Storing destination

An entered or selected destination can be assigned any name.

The address and the name are stored in the destination memory **Stored Destinations**.

- Select **Store**.
  The menu for storing in the destination memory is called up. (Fig. 8.19.)
- In the field **Name** a suggestion for a name is already provided.
  By repeatedly pressing the Back button **17** the characters of the suggested name can be deleted.
- Enter the desired name.
- Select **Enter**.
  The address is stored in the destination memory **Stored Destinations**.

8.6.5. Storing position

The current position can be stored under any name in the destination memory **Stored destinations**.

- In the destination memory menu, select **Store Position**.
  The menu for storing the position is called up. (Fig. 8.20.)
- Specify the position in degrees of longitude and latitude.
- Enter the name. Please refer to Chapter 8.6.4. “Storing destination” on page 66.
- Select **Enter**. The position is stored in the destination memory **Stored Destinations**.

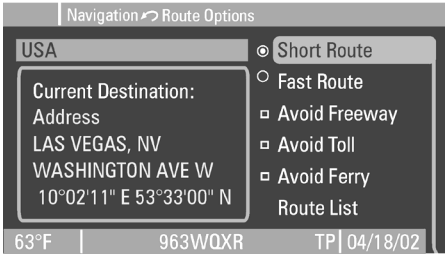


Fig. 8.21.

8.7. Route options

Using the route options, the calculation of the route can be influenced.
The route options can be set and modified prior to the route calculation or during route guidance.

Opening route options
Select **Route Options** in the NAVI main menu. (Fig. 8.21.)

Select either the route option **Short Route** or **Fast Route**.

- **Short Route**
  With this selection, a route with the shortest possible distance to the destination is calculated.

- **Fast Route**
  With this selection, a route with the fastest possible journey time to the destination is calculated.

- By selecting **Avoid Freeway**, **Avoid Toll** and **Avoid Ferry** you can set restrictions for the route calculation.
  If a restriction has been activated (☑), then a route, e.g. without tolls, is calculated by the PCM.

  You can combine several restrictions. In individual cases, it is possible that a corresponding route cannot be calculated by the PCM.
  Because some destinations cannot be reached or can only be reached with great difficulty without tolls, blocked segments may be incorporated into the route planning.

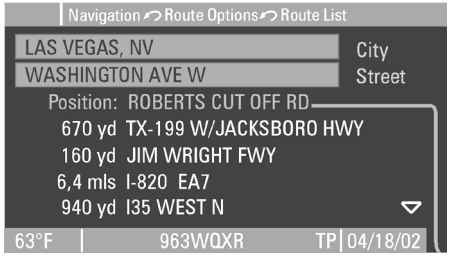


Fig. 8.22.

8.8. Route list

In the route list, the streets to be used to reach the destination are displayed.

Displaying route list
- Select **Route Options**
- Then select **Route List**.
  The route list is displayed. (Fig. 8.22.)
- You can scroll through the list by turning the rotary knob **16**.

Fig. 8.23.

Fig. 8.24.

8.9. Tour planning

In tour planning, up to 5 tours with 8 destinations can be stored and edited.
The individual destinations can then be driven to in the order specified.

Select **Tour Planning**. The tour planning menu is called up. (Fig. 8.21.)
The left-hand area displays a maximum of 5 different tours.
The right-hand area contains the following options.

Select
After selecting **Select** use the rotary knob **16** to choose one of the various tours stored.
By pressing the rotary knob **16** the desired tour is chosen.

Edit
After selecting **Edit** use the rotary knob **16** to display the previously selected tour. (Fig. 8.24.)

- **Select**
  After selecting **Select** by turning the rotary knob **16** choose a tour destination. Press rotary knob **16**. The tour destination is chosen.

- **Move**
  After selecting **Move** by turning the rotary knob **16** select the previously chosen tour destination in the list of tour destinations. Press rotary knob **16**. The new position of the tour destination is confirmed.

- **Delete**
  Select **Delete**.
  The previously selected tour destination is deleted.

- **Skip**
  Select **Skip.**
  The previously selected tour destination is skipped. The PCM does not perform route calculation for this tour destination. The system continues with the next tour destination in the list.

- **Add**
  Select **Add**. If 8 destinations have not previously been assigned to the tour, an additional destination is selected and added to the tour.

- **Start Tour**
  Select **Start Tour**. Route calculation to the first destination of the tour is started.

- **Continue Tour**
  Select **Continue Tour**. The tour resumes from the point at which it was interrupted.

Delete
After selecting **Delete** the tour previously chosen is deleted.

Name Tour
After selecting **Name Tour** a name can be entered for the tour previously chosen.

Select the option **Confirm** to confirm the name entered.

New tour
After selecting **New Tour** a new tour can be added, provided 5 tours have not already been stored.

- **Assigning destinations**
  Select the option **Edit**.
  Then choose **Add**. A number of destinations can be assigned to this tour.

Start Tour
Select **Start Tour**.
The route calculation to the first destination of the chosen tour is started.

8.10. Route guidance

Route guidance is given by voice announcements, assisted by pictograms (directional arrows).
The display can be switched to map display.

You can also request pictograms for route guidance in the vehicle's on-board computer.

Voice announcement
When route guidance is active, all the driving recommendations until the destination is reached are announced.
You will be given corresponding driving recommendations successively in good time before a driving maneuver:

- As a warning e.g. "Turn right shortly).
- Detailed information regarding distance e.g. "Turn right after 200 m".
- The final turning information e.g. "Now turn right".

The volume of driving recommendations can be set. Please refer to Chapter 8.12. "NAVI Set" on page 71.

If you did not hear a driving recommendation, or want an updated announcement of the driving recommendation, press the Repeat button **6**.

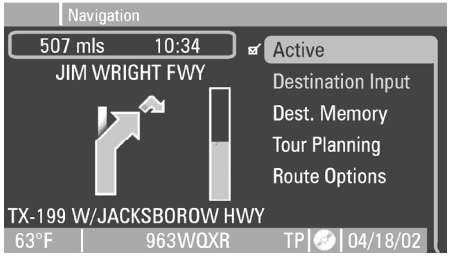


Fig. 8.25.

By pressing the volume control **7**, a driving recommendation currently being announced can be interrupted.

Pictograms
Pictograms are directional arrows which illustrate the driving maneuver (e.g. to the left, to the right, straight ahead or turn around).
If after a driving maneuver another maneuver is required, this is displayed by smaller directional arrows.

- If the information is available, the street name is displayed above the pictogram.
  The distance to the destination and the ETA are given as additional information.

- If the information is provided, the street name of the street currently being driven on is displayed under the pictogram.

- The distance to the next driving recommendation in kilometers and meters is displayed on the right next to the pictogram.

- When approaching the next driving maneuver, the distance is illustrated by a bar.
  The bar becomes filled from the bottom upward when approaching the driving maneuver.

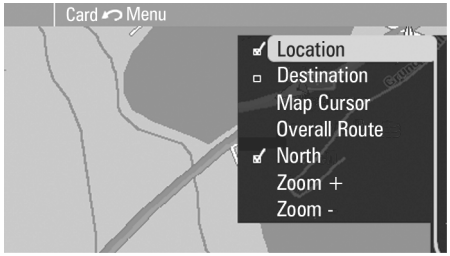


Fig. 8.26.

8.11. Map display

By pressing the Map button **19** you can switch between the pictogram display and the multi-colored map display.

In the map display, your vehicle is displayed as a triangular arrow. The arrowhead points in the direction of travel.
The recommended travel route, streets, rivers, railroad tracks, wooded areas or lakes are displayed as colored lines or areas.
The accuracy depends on the map scale set.
Route guidance also takes place through voice announcements.

You can change the display range of the map display. Please refer to Chapter 8.13. “Map Display Set” on page 72.

The scale of the displayed map can be changed by turning the rotary knob **16**.

The map menu is displayed by pressing the rotary knob **16**. The menu disappears if there is no further actuation within 3 seconds.

Location and **Destination**
By selecting **Location** or **Destination** the location or destination is placed in the center of the map.
Only one option (**Location** or **Destination**) can be activated (☑).

Note
If the two options are deactivated or if the map has been shifted, the vehicle position cannot be seen.
By selecting **Location** the vehicle position can be displayed again in the center of the map.

Map Cursor
After selecting **Map Cursor** the map can be moved. Please refer to Chapter 8.4.6. “Destination input via cursor” on page 61.

Overall Route
By selecting **Overall Route** the map scale is selected automatically so that the complete route can be seen on the map.
By turning the rotary knob **16** you can switch back to the previously selected scale.

North
By selecting **North** the map is oriented to the north.

Note
If north is not selected, the map is oriented in the direction of travel.
With a set map scale of more than 5 km the map is automatically oriented northward.

Zoom + and **Zoom -**
By selecting **Zoom +** and **Zoom -** the scale of the map display can be changed.

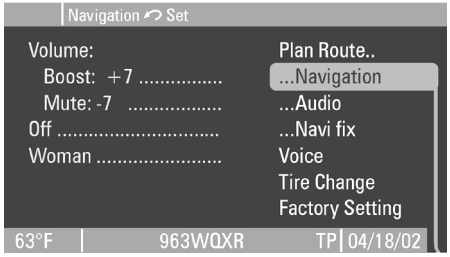


Fig. 8.27.

8.12. NAVI Set

In Navigation Set you can make settings for the driving recommendations and initiate recalibration, e.g. after changing a tire.

- The options **...Navigation**, **...Audio** and **...Navi fix** can be used to set the volume for driving recommendations.
- The option **Voice** is used to set the type of voice (male or female) to be used.
- The option **Tire Change** can initiate a recalibration after a tire change.
- The option **Factory Setting** can reset the settings to the factory setting.

Navigation Set can be reached by pressing the Set button **18** in the NAVI main menu.
(Fig. 8.27.)
The current settings are given in the left-hand area of the display.

...Navigation
After selecting **...Navigation** depending on the setting for **...Navi fix** either the volume increase compared to the audio volume or an absolute volume can be set for driving recommendations.
The desired value is set by turning the rotary knob **16**. The set value is applied by pressing the rotary knob **16**.
A voice announcement is made as an aid during setting.

...Audio
After selecting **...Audio** by turning the rotary knob **16** the decrease of the audio volume can be set for a driving recommendation.
The set value is applied by pressing the rotary knob **16**.
A voice announcement is made as an aid during setting.

US english

...Navi fix
By selecting **...Navi fix** this function can be switched on or off.
On: The volume of driving recommendations is independent of the selected audio volume.
The driving recommendations are provided at an absolute volume set by you.
Off: Driving recommendations are given at a volume interval from the current audio volume defined by you.
The respective status is displayed in front of the option **...Navi fix**.

Voice
After selecting the option **Voice** using the rotary knob **16** you can select either **Woman** or **Man**.
After selecting **Woman** or **Man** the voice files are loaded. If necessary, the navigation CD must be inserted.

Tire Change
By selecting **Tire Change** using the rotary knob **16** the system is informed that the vehicle tires have been changed.
The query **Reset calibration?** is made.
The options **Yes** and **No** are available.

- **Yes**
  Resets the calibration and starts recalibration.

- **No**
  Recalibration is not started. The menu returns to Navigation Set.

Factory Setting
After selecting **Factory Setting** the settings can be reset to predefined values.
Selecting **Yes** will delete your settings.

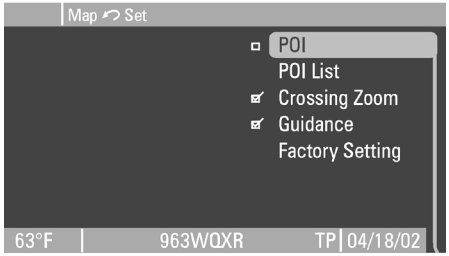


Fig. 8.28.

8.13. Map Display Set

In Map Display Set, settings relating to the map can be made.
You can set:

- **POI** (**P**oints **O**f **I**nterest), which are then displayed in the map.
- **Crossing Zoom**, when approaching an intersection the map scale is adapted automatically and the intersection is enlarged.
- **Guidance**, driving instructions are displayed as pictograms in the map.

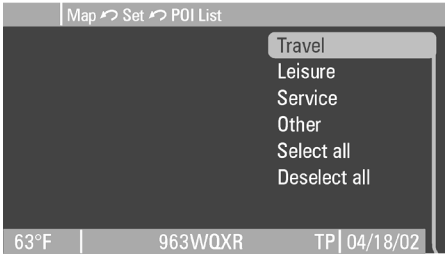


Fig. 8.29.

Fig. 8.30.

Map Set can be reached by pressing the Set button **18** in the active map display. (Fig. 8.28.)

POI
By selecting **POI** the display of POIs in the map is turned on (☑) or off (☐).
To prevent overloading the map, many POIs are not displayed until a smaller map scale is set.

POI List
By selecting **POI List** a menu with the possible POI categories is displayed. (Fig. 8.29.)
By selecting **Select all** all the types of POI for the different categories are selected.
By selecting **Deselect all** no POIs are displayed.

After selecting a category **Travel**, **Leisure**, **Service** or **Other** (Fig. 8.30.) there is the option of switching the display of the desired POI in a category on or off.

By selecting **Select all** all the types of POI in the selected category are selected and displayed in the map.

By selecting **Deselect all** the selection is canceled. No points of interest in this category are displayed.

Crossing Zoom
After selecting **Crossing Zoom** the scale of the map display is automatically modified when approaching an intersection.
The intersection is enlarged, i.e. displayed in greater detail.

Guidance
After selecting **Guidance** the driving instructions are displayed as pictograms in the top left-hand area of the map.

Factory Setting
After selecting **Factory Setting** the settings can be reset to predefined values.
Selecting **Yes** will delete your settings.

9. Description of Symbols

	Cursor symbol: After selecting, the cursor can be moved in the entry field.
	Upper/lower case symbol: After selecting, you can switch between upper and lower case in the input menus.
	Special character symbol: After selecting, special characters can be chosen.
	Line break symbol: After selecting, a line break can be inserted into the text entered.
	Symbol indicates that you are in a submenu.
	At the left of the top line indicates the option of deleting characters in the entry fields by pressing the Back button **17**.
	At the left of the top line indicates the option of entering numbers using the numerical keypad **3**.
	Associated function is not active/ switched on.
	Associated function is active/ switched on.

	Option is not active.
	Option is active.
	CD symbol appears when navigation accesses the inserted navigation CD.

10. Status Messages and Technical Data

10.1. Status messages/troubleshooting

In the overview on the following pages, **messages** and their functions/causes which may appear on the PCM display and have not been described in the preceding chapters are summarized.

In another table, potential **problems** which may occur during the use of your PCM are listed. Here, you will find corresponding instructions for eliminating them.

Message	Function/cause
Temperature is outside permitted range.	Operating temperature in the navigation module has exceeded or fallen below the permissible value.
Insert navigation CD.	Is displayed after ejecting the navigation CD (by Eject button) **or** if your PCM is switched on without navigation CD.
Loading new language.	When switching language or after inserting a new CD, the language memory is updated in some cases.

Message	Cause/remedy	
Loading new software.	After inserting a new CD, the system software is updated in some cases.	
Error reading CD Please check the CD	Possible fault: CD dirty CD scratched Condensation on CD CD inserted incorrectly	Remedy: clean CD replace CD wait turn over CD
Incorrect CD	CD scratched	replace CD
Unknown CD	Possible fault: CD scratched Incorrect CD	Remedy: replace CD insert genuine Porsche CD
Multiple error reading CD	Possible fault: CD dirty CD scratched Condensation on CD	Remedy: clean CD replace CD wait
CD is upside-down	Press Eject button and turn over CD.	
Starting navigation system.	Wait for navigation system to start up.	

Problems	Possible causes	Remedy
GENERAL:		
Screen dark	- "Dark" button was pressed previously or - Car battery weak (with PCM operation without ignition)	- Press "dark" button again - Charge battery
Screen is hard to read	- Unfavorable display settings	- Change contrast (via MAIN function: Set/Display/ Contrast)
AUDIO:		
Station buttons are not stored with station names	- Broadcasting station transmits additional information intermittently - Poor reception when storing (frequency is displayed) - Broadcasting station does not transmit any RBDS information (frequency is displayed)	- Store again when station name is sent by broadcasting station
Stored stations cannot be requested via station button	- Station currently not available	
CD player not working	- CD is inserted incorrectly **or** - magazine is empty **or** - magazine missing	- Insert CD correctly and insert magazine

10.2. Technical data

Radio frequency ranges:

VHF (FM) 87.9-107.9 MHz
(manual tuning in 100 KHz-increments)

AM 530-1700 KHz
(manual tuning in 1 KHz-increments)

Tuning steps for automatic station search:

VHF (FM) 200 KHz

AM 10 KHz

Radio output power:

4 x 15 Watt
PCM without additional amplifier

The information in this operating guide corresponds to the knowledge available at the time of going to press.

Subject to technical modifications.

11. Index

US english

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V

US english

1: **FM button**
Selects FM radio source (in Audio mode).

2: **AM button**
Selects AM radio source (in Audio mode).

3: **Numerical keypad**
in radio mode
- Press for less than 1 second: selection of stored stations
- Press for longer than 1 second: current station is stored to this station
- In the corresponding menus, entry of the station frequency

in CD mode
- Selection of the CDs in the changer (press for longer than 1 second)
- Track selection

4: **Search button**
in radio mode
- Backward station search

in CD mode
- Backward track skip

5: **Search button**
in radio mode
- Forward station search

in CD mode
- Forward track skip

6: **Repeat button**
Updated repetition of navigation announcements.

7: **Volume control (with pushbutton function)**
Turn to left/right:
Reduction/increase in the volume
Press:
- with ignition off: PCM on/off (automatic shut-off after half an hour of operation
- with ignition on: standby mode (screen dark, route guidance inactive) switches on again when pressed again
- interruption of navigation announcements and traffic instructions

8: **MAIN button**
Selects the Main main function display

9: **AUDIO button**
Selects the Audio main function

10:**SOUND button**
Selects the sound settings main function

11:**ORG button**
Selects the ORG main function

12:**VOICE button**
Selects the VOICE main function

13:**INFO button**
Selects the information main function

14:**TRIP button**
Selects the trip computer main function

15:**NAVI button**
Selects the navigation main function

16:**Rotary knob (with pushbutton function)**
Turn:
- in general: turn to the left / right: moves selection pointer to the bottom/left or top/right.
- in menus with additional letter/number bars: moves the selection pointer according to the direction of rotation
- if map screen only (without options) is displayed: turn to the left / right: map display is made smaller / larger

Press:
- in general: performs highlighted functions or selects highlighted options / list entries
- if map screen only (without options) is displayed: re-displays the options

17:**Back button**
- Cancels list selection
- Go back to in menus
- In input menus, deletes the character entered last

18:**Set button**
Selects the settings menu for the currently displayed main function or the map display.

19:**Map button**
Switches to map display, back to the previously displayed menu.

20:**Diversion button**
requests traffic jam diversion menu.

21:**Display button**
Switches display on/off (dazzle protection).

22:**Eject button CD**
Ejection of the inserted audio or navigation CD.

23:**CD slot**
CD slot for playing audio CDs or for the navigation CD. Insert the CD with the printed side upward.

24:**Brightness sensor**
Sensor for automatic brightness adjustment of display

25:**CDC button**
Selects CD changer mode.

26:**CD button**
Selects CD player mode (built-in).