

radio-navigation

MFD2 system

owner's manual
manual de instruções



SEAT
auto emoción

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General information

This manual contains important information, tips, suggestions and warnings on using the MFD2 radio navigation system. The other publications in the vehicle wallet contain further information which you should be aware of for your own safety and for the safety of your passengers.

Ensure that the complete vehicle wallet is always in the vehicle. This is especially important when you lend or sell the vehicle to others.

This manual describes the **scope of vehicle equipment** at the time of publication. Some of the equipment described here will not be available until a later date, or is available only in certain markets.

Illustrations are intended as a general guide, and may vary from the equipment fitted in your vehicle in some details.

Directions and positions are always relative to the direction of travel of the vehicle unless otherwise stated.

Some sections of this booklet do not apply to all vehicles. If this is the case, a text at the start of the section indicates **to which vehicles it applies**, e. g. "Applies to vehicles with: CD changer".

The equipment marked with an asterisk* comes in series only in determined model versions, are supplied as optionals only for some versions, or are only offered in different countries.

- © Registered trademarks are marked ©. However, the absence of this symbol does not constitute a waiver of the rights concerning any proprietary name.
- ▶ The section is continued on the following page.
- ◀ Indicates the **end of a section**.



WARNING

Texts with this symbol contain safety information. They warn you of serious dangers, possibly involving accident or injury.



Caution

Texts with this symbol draw your attention to a possible risk of damage to your vehicle.



For the sake of the environment

Texts with this symbol refer to points relevant to the protection of the environment.



Note

Texts with this symbol contain additional information of a more general nature. ■

Introduction

Important Information. Traffic safety

Travelling on today's roads requires the driver's full attention at all times.

Only operate the radio and its various functions when the traffic situation really permits this.



WARNING

- Before starting the trip, it is convenient to familiarise yourself with the different radio functions.
- The high volume may present a danger to you and for others.
- Adjust the volume in a way that you can distinguish surrounding noise, for example, horns, sirens, etc.
- The auto-radio adjustments should be made with the car stopped, or should be performed by someone else.



Note

Separate the radio navigation card and keep it in a safe place, but never within the vehicle. In case the radio is lost with the code, go to a SEAT Dealer, who will help you. ■

Quick Reference Guide

Controls

This overview will help you to quickly familiarise yourself with the control elements.

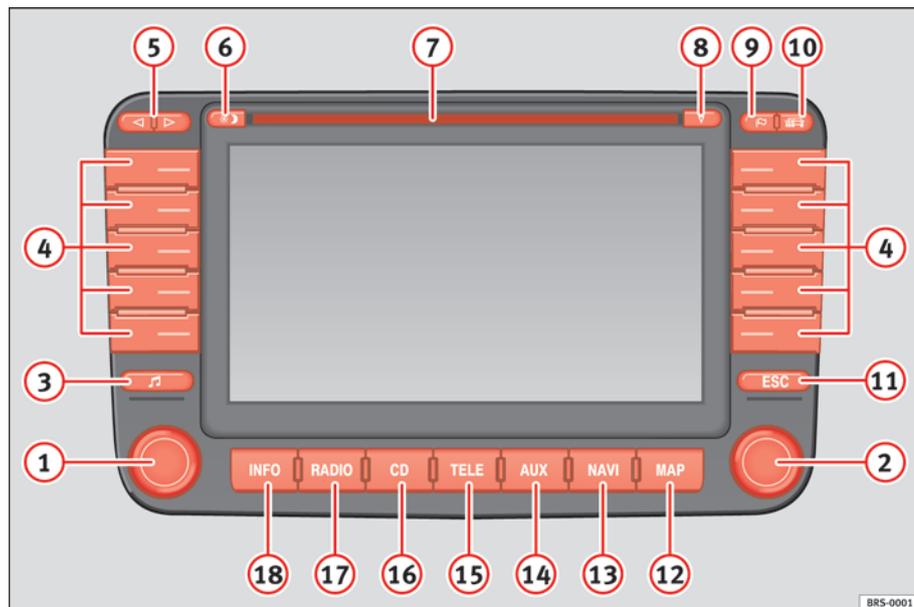
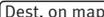


Fig. 1 Operating overview

- ① On/off knob (push) and volume control (turn). The volume control will regulate the volume of the audio source currently



- selected. A column will indicate the volume level. The volume of a telephone conversation can also be regulated using the volume control.
- ② Entries in the screen menus can be made using the menu button. Turning the button marks one of the functions or a sub-menu and pressing it selects it.
- ③  Sound and sound centre settings 13
- ④ Left and right of the screen - 5 function keys/station buttons.
- The term function key is used because the keys have different functions depending on the menu being shown in the display. If the text says, for example, “Press ”, then press the function key next to where the text “Dest. on map” appears on the screen.
 - Station keys: The upper 6 function keys are used as station buttons in the radio mode. Stations can be stored on these keys. The upper 6 function keys can be used to select the inserted CDs in CD changer mode.
- ⑤   Backwards/forwards keys, apply to the *active* audio source
- press briefly: radio mode: station change; CD mode: changes track
 - press longer: radio mode: manual station selection; CD mode: fast forward/backward search
- ⑥  Switching between day and night display or switch display off 42
- ⑦ Slot for an audio or navigation CD. 11
- ⑧  CD eject button. The ejected CD will be pulled back into the unit if it is not fully withdrawn within 10 seconds.
- ⑨  Store flagged destination. The unit will store the current vehicle position when this button is pressed. When this button is pressed again, the flagged destination will be overwritten if it has not been stored in the destination memory. 18, 24
- ⑩ The traffic jam button calls up the input menu to exclude route sections in a route list or to enter traffic jam information manually 30
- ⑪  Back to previous menu.
- ⑫  Map display when Navigation CD is inserted / Switch to symbol display. 39
- ⑬  Calls up the Navigation main menu. 17
- ⑭  Switches to other auxiliary audio or video units. 44
- ⑮  Reserved for additional functions in telephone mode at a later date
- ⑯  CD and CD changer control¹⁾ 11
- ⑰  Radio menu 8
- ⑱  Call up system settings, traffic reports, position displays 41

**WARNING**

Adjust the volume so that you can still hear signals coming from outside the vehicle, such as fire brigade, ambulances or police cars.

**Caution**

It is not a tactile display! Do not press the display surface. The screen can be cleaned with a soft cloth (and alcohol, if necessary). Do not use solvents such as turpentine or petrol to clean the surface as they will corrode the material. ■

¹⁾ Optional equipment

Display elements on the screen

This section describes the elements seen in the display.

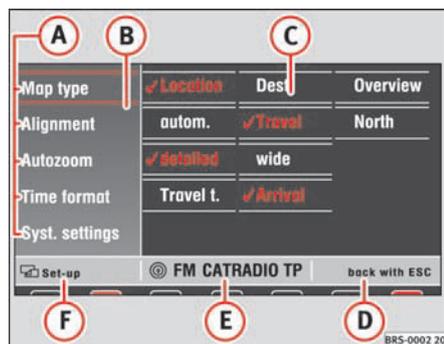


Fig. 2 Display elements

- A The functions or sub-menus shown on the screen can be called up by pressing the function key situated directly next to them. This can also be carried out by first turning the menu knob and then pressing it.
- B Use the menu button to move the red selector frame. It will disappear from the screen if the unit is not used for 30 seconds and will appear again if the menu knob is turned.
- C The selection of the function characteristics, such as **Destin** or **Overview**, can **only** be reached by pressing and turning the menu knob.
- D The right part of the status bar contains additional information or the option “back with ESC”
- E Details of the active audio source or navigation status are shown in the centre part of the status bar.
- F The left part of the status bar shows the current menu.

Below the status bar

A light red marking indicates which source is active. Press the key beneath it to call up the main menu for this source.

A dark red marking indicates which source is still active in the background (the radio in this example). Press the key beneath it to call up the main menu for this source.

If the text **CD ?** is displayed in the small marking above the **CD6**/**NAVI** button, the CD inserted in the CD drive can not be read and may be damaged. ■

Switching on and off

A safety code made up of four characters must be entered when switching on for the first time.

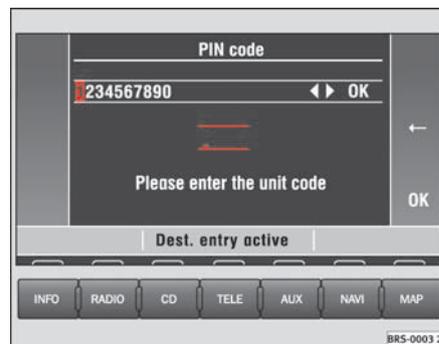


Fig. 3 Entering the safety code

Switching on/off

- Press the left button ⇒ page 4, fig. 1 ①.
- Press the left button again, to switch the unit off.

Entering the safety code

- The safety code can be found on the unit card.
- Enter the characters by turning and pressing the menu knob ⇒ page 6, fig. 3.
- Press  if you wish to change incorrect digits.
- Once the safety code as entered corresponds to the code given on the unit card, press .

The last menu used and also the last audio source used before switching off will be selected automatically when the unit is switched on again. The MFD2 radio navigation system will be switched off if the ignition is turned off. The unit can be switched on again using the left button when the ignition is switched off. It will be switched off automatically after an hour to stop the vehicle battery from running down.

If no CD has been introduced into the unit, upon entering the safety code and pressing  the following message may appear: **No CD inserted. Insert a CD-ROM for SEAT Dynamic Navigation MFD2.**

If you do not wish to use the navigation system immediately, you can still select a different audio source by pressing the appropriate button.

Unit card

The code number is printed on a unit card together with the serial number. This card can be found at the front of the vehicle wallet.

The unit card must be kept in a safe place - under no circumstances in the vehicle! Only then will the unit be useless to thieves.



Note

If a wrong code is entered twice repeatedly, the system is locked for an hour. After this time has passed you may enter the safety code. ■

Radio / CD / Sound

Radio

Overview

Information is given here on how to select and store stations.



Fig. 4 Radio main menu

The following radio functions are selected via the function keys:

- **[Scan/_AS]** – Scans stations or stores those stations with the strongest reception ⇒ page 8, “Scan/AS”,
- **[List/_MAN]** – Calls up station list or manual frequency input ⇒ page 10, “Station selection from a list (FM only)”,
- **[Band]** – Sets the waveband and traffic radio, mute function ⇒ page 9, “Setting waveband/Muting”,
- **[Ajustes]** – Set-up for RDS functions ⇒ page 11 Settings. ■

Scan/AS

The stations with the strongest reception are either scanned or stored automatically.

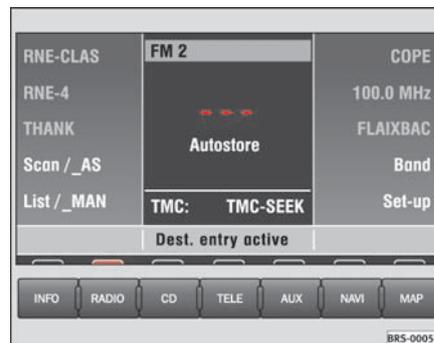


Fig. 5 Autostore AS

Playing stations briefly

- Briefly press ⇒ fig. 5 **[Scan/_AS]**.

Autostore on the second memory level (FM2 or AM2)

- Press **[Scan/_AS]** for longer than 2 seconds to allocate those stations with the strongest reception in the selected waveband (FM2 or AM2) to the upper 6 function keys. ▶

Autostore for all memory levels (Initial Autostore)

- Press **[Scan/_AS]** for longer than 10 seconds to allocate those stations with the strongest reception in **all** wavebands to the upper 6 function keys.

The selected function will be shown on the screen and can be stopped by pressing **[Scan/_AS]** again.

A scan in the FM waveband will play through the list of registered stations. A scan in AM will play all stations with a high quality reception. Each station scan lasts 8 seconds. Press the menu knob or **[Scan/_AS]** if you would like to hear the station currently being played.



Note

Use the function “Initial Autostore” if you are using the unit for the first time or when selecting new stations in the waveband. Any station names on the station buttons will be overwritten. The process of searching for and storing the station names takes a few seconds. ■

Setting waveband/Muting

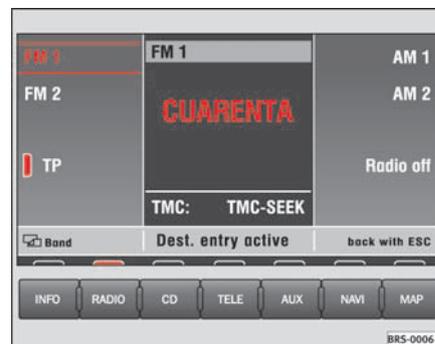


Fig. 6 Radio waveband

- Press **[Radio band]** in the radio main menu ⇒ [page 8, fig. 4](#) to see the frequencies.
- Press **[FM1]** or **[FM2]** to receive FM stations.
- Press **[AM1]** or **[AM2]** to receive medium wave stations.
- When in FM1 or FM2 mode, press **[TP]** to receive traffic information reports.
- Press **[Radio off]** to mute the radio or to switch the mute function off.

The last heard station will be played for the waveband selected. Traffic information reports will be relayed even when the radio has been muted. The TP function must be active for this purpose (yellow column next to the field). When TP is active, the letters TP are lit up in red. The increased volume level for the traffic announcement can be lowered by pressing the button **[INFO]**. ■

Station selection from a list (FM only)

The MFD2 radio navigation system will automatically compile and store a list of receivable FM stations, after the unit is switched on.



Fig. 7 List of stations

- Press **List/_MAN** in the radio main menu ⇒ page 8, fig. 4 to see the stored stations.
- Select a station by turning and pushing the menu knob or by using the right-hand function keys.
- Select a station from the list by turning and pushing the menu knob. You can scroll through several pages of the list using the scroll markers **▲**, **△**, **▼** and **▽** and confirm your selection by pressing **OK**. ■

Station selection from memory or by entering frequency

Station selection from memory

- Briefly press button **◀** or **▶** to listen to the stored station.

Station selection by entering frequency

- Press the button **◀**, **▶** ⇒ page 4, fig. 1 **5** or **List/_MAN** for longer than 2 seconds. A station frequency in a red frame will appear in the middle of the screen. The frequency will change as long as the buttons **◀** or **▶** are pressed and held.
- For fine tuning, release the button **◀** or **▶** and press the buttons **◀** or **▶** again within 2 seconds to set the exact frequency.

The word **manual** appears on the screen during the frequency input. The search will start in the direction that you have selected in steps of 0.1 MHz (FM) or 9 kHz (AM). In this way you can enter a frequency that you wish to listen to. The frequency can also be altered by turning the menu knob. ■

Allocating the stations to the station buttons

Stations can be allocated to the buttons to make it easier to select them quickly.

- Press one of the upper 6 station buttons until you hear a signal ⇒ page 4, fig. 1 **4**. The station you are listening to is now stored on the button.

A total of six stations can be stored on the station buttons for each mode; FM1, FM2 or AM1 or AM2. The short form of the station name or the station ▶

frequency will appear next to the button. Press one of the buttons if you wish to listen to one of the stored stations.

Note

The memory on a button will be overwritten if a new station is stored there. ■

RDS system settings

Some stations transmit text and information in addition to the station name.

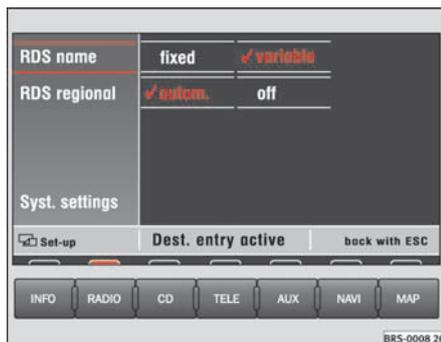


Fig. 8 RDS functions

- Press **Settings** in the Radio main menu ⇒ page 8, fig. 4.

Further text information as running text will not be displayed on the screen, in addition to the station name, for all RDS stations.

A tick ✓ will indicate which options have been selected.

Function keys

RDS Name – **fixed**: Only appears the station name. **variable**: Displays information in continuous text form.

RDS Regional – **Auto**: The selected regional programme of a station broadcasting over a wide area will continue to be displayed even when you enter the broadcasting area of another regional programme of the same station.

System settings ⇒ page 42

WARNING

It is very important to always stay alert to the traffic and not be distracted with the continuous text of the RDS stations. ■

CD

Listening to an audio CD



Fig. 9 Main menu CD

Listening to a CD

- Press the \Rightarrow [page 4, fig. 1](#)  button. If a CD is already in the player, the last played track will be selected, otherwise the following will appear briefly on the screen: “No Audio CD”.
- Insert a standard 12 cm audio CD. The play function will start automatically.

Playing the previous or next track

- Press button  or  briefly.

Fast forward/reverse

- Press and hold button  or .

Ejecting a CD

- Press  \Rightarrow [page 4, fig. 1](#) .

The number of the track and its length are shown on the screen. **TMC** lights up in red when traffic bulletins are desired and **TMC** indicates whether TMC stations are being received \Rightarrow [page 11, fig. 9](#)

Function keys during the play function:

 ...  – Selects the corresponding disc of the **CD changer**²⁾.

 – Plays the disc inserted in the reader.

 – All tracks on the CD will be played for 8 seconds at a time.

 – The tracks on the CD will be played in a random order.

 \Rightarrow [page 42](#)



WARNING

The CD player is a class 1 laser product. If it is opened, or is faulty or damaged, there is a risk of invisible laser beams escaping from the unit. The CD player contains no parts that have to be serviced. Any repair work that needs to be done should, therefore, be carried out by an Official SEAT Service exclusively.



Caution

- Only 12 cm standard CDs should be used, avoid 8 cm "single" CDs. Only round CDs should be inserted in the CD slot. "Special shape CDs", can not be played and they will damage the CD player.
- Slide the CD with the printed side up into the CD slot up to the point where it is drawn in automatically. Hold the CD at the sides. Avoid leaving fingerprints on the CD. Clean CDs with a dry, lint-free cloth. When doing this, wipe the CD from the centre outwards. Do not clean the CDs using alcohol or solvents. Do not place the CDs near heat sources or in the direct sunlight. Do not write on the CDs and do not attach stickers to them.



Note

- The upper 6 function keys are only active if a CD changer has been connected.
- CD-R and CD-RW formats can also be played, depending on the quality of the blanks.
- If the text **CD ?** is displayed in the small marking above the  /  button, the CD inserted in the CD drive can not be read and may be damaged. ■

²⁾ Optional equipment

Playing a CD from the CD changer

How to use the MFD2 radio navigation system to select a CD in the CD changer.



Fig. 10 CDs currently in the changer

- Use the function key **CD6** to select a CD from the changer.

Uneven road surfaces and strong vibrations may cause the CD to jump. The CD play function should be switched off in this case. ■

Sound, sound focus and volume

This section describes how the sound character and the volume of different sound sources can be set individually.

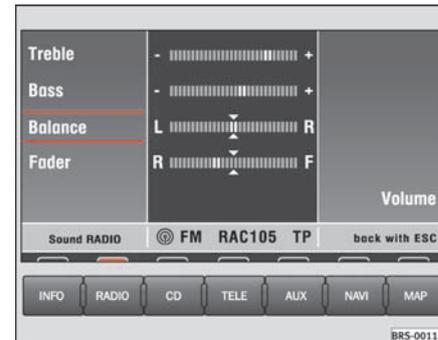


Fig. 11 Sound main menu



Fig. 12 Volume settings ▶

- Press the button  ⇒ page 4, fig. 1  to open the Sound main menu.

Function keys in Sound main menu:

 or  – Treble or Bass settings ⇒ page 13, fig. 11.

 – Volume setting for the mid-range frequencies.

 – Sound focus setting left / right.

 – Sound focus setting front / rear.

 – Opens the volume set-up where individual volume settings can be made for the different audio sources ⇒ page 13, fig. 12.

Function keys in the volumes set-up function:

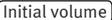
 – The setting for the sensitivity of the speed-dependent volume adjustment (GALA). The greater the vehicle speed, more noise is perceived in the interior. This system increases the equipment volume higher or lower according to the position selected.

 – Minimum volume of traffic announcements.

 – Minimum volume for telephone conversations.

 – Minimum volume for navigation system announcements.

 – The traffic announcements are muted as long as a red bar can be seen next to the function key.

 – Sets the minimum volume for when the unit is switched on.



Note

By pressing buttons  ⇒ page 4, fig. 1 ,   and status button  at the same time, you can reset the MFD2 radio navigation system to the factory settings. Appears the message **Factory settings. Wait...** ■

Navigation

General frame

How does the navigation system work, and how is it operated?

An optimal route is defined using sensors, satellites and traffic reports and the driver is then guided to his or her destination.

The current vehicle position is determined using a system of satellites (GPS - Global Positioning System). Sensors in the vehicle measure distances that have been driven. Measured values are compared using the detailed map material on the navigation CD and corrected with the assistance of TMC traffic announcements as necessary. An optimal route to the destination is determined in this way.

Navigation announcements and direction arrows shown on the screen and in the combi-instrument* guide you safely and conveniently to your destination. You can drive to a given address in towns you are unfamiliar with, or drive to the nearest garage or be guided to a hotel.

In this chapter, answers can be found to the following questions:

- What rules do I have to keep to when using the navigation system? ⇒ page 16, "Safety"
- How do I use the navigation CD? ⇒ page 16, "The navigation CD"
- Can I listen to music when using the navigation system? ⇒ page 16, "General notes"
- What happens if I leave the recommended route? ⇒ page 16, "General notes"
- Can a navigation announcement be repeated? ⇒ page 39, "Announcement of navigation recommendations"
- How does the MFD2 radio navigation system respond when driving in an underground car park or a tunnel? ⇒ page 16, "General notes"
- How do I enter destinations? ⇒ page 18, "Destination entry"
- How can I enter garages, restaurants or hotels as destinations? ⇒ page 22, "Special destinations close to the address"
- Can I store destinations in a memory? ⇒ page 24, "Destination memory"
- What parameters can I set for route calculation? ⇒ page 27, "Parameters for route calculation"
- What can I see on the screen? ⇒ page 32, "Map and symbol displays"
- Can I stop the route guidance function before I reach my destination? ⇒ page 38, "Route guidance" ■

Safety

The navigation system determines the position of the vehicle, the direction and distance and the route to a selected destination without taking traffic regulations into account. Navigation recommendations are given as announcements by the system. Direction arrows are also shown on the screen. The destination is entered when the vehicle is stationary. The route guidance function is designed for cars and is thus unsuitable for larger commercial vehicles.

	WARNING
<ul style="list-style-type: none"> ● Please observe the laws of road traffic legislation when following the recommendations made by your navigation system. ● Route guidance is subject to constant changes despite the information about one-way streets, pedestrian zones etc. stored on the navigation CD. Information on traffic lights, stop and right of way signs, parking and stopping restrictions as well as lane constrictions is not included in the navigation system. Traffic signs and legislation always have priority over the recommendations made by the system. ● Adjust your speed to suit road traffic conditions and also weather and visibility conditions. Do not be guided exclusively by the navigation system indications and always respect traffic rules. ■ 	

The navigation CD

Inserting the navigation CD

- Press the button  ⇒ page 4, fig. 1  to eject any CD in the CD slot.
- Remove the CD and insert the navigation CD with the written side facing up.

- Push the CD into the slot until the MFD2 radio navigation system pulls it in. The program stored on the navigation CD is loaded. Do not remove the navigation CD before the loading process is finished.

The navigation CD contains a digitalised road map. The extent to which small villages, streets and house numbers are contained on the CD depends on the CD version.

The content of the CD is constantly being updated. You will receive information on new updates at your next SEAT Official Service. You will need a new navigation CD for every country that you travel to.

Note

If the text **CD ?** is displayed in the small marking above the  button, the CD inserted in the CD drive can not be read and may be damaged. ■

General notes

You can continue to listen to the radio or CD (via the CD changer) whilst you are being guided to your destination.

When entering an address (town, street) only those letters or symbols which make up a logical entry depending on the contents of the navigation CD will be presented. A list of possible names will be shown. Do not forget to enter the blank space in names made up of more than one word, such as High Wycombe.

The route will be recalculated if you leave or disregard the route that was originally calculated. This process takes only a few seconds.

The last announcement made can be repeated. The volume of a navigation recommendation can be changed whilst it is being made. ►

A variety of different information on the route can be called up during active route guidance. The scroll function can be used to page through lists shown on the screen, either line by line or page by page.

If the display “**Off Road**” appears on the screen, it means you are located on a non-digitalised street, (e.g. on a farm track). The GPS satellites will not be able to reach your antenna when you are in a tunnel or underground garage, meaning that the unit orientates itself via the wheel sensors. If you try to carry out a route calculation in this situation you may hear the announcement: “You are located on a non-digitalised street”. Drive on until the display “**Off Road**” disappears. ■

Main menu - Navigation



Fig. 13 Main Menu of the navigation system

- Press **[NAVI]** to display the main Menu of the navigation system
⇒ page 4, fig. 1 **13**.

Function keys in the Navigation main menu

[Begin Guide] – Starts route guidance to the entered destination. Pressing this button again will stop the route guidance function ⇒ page 38, “Route guidance”.

[Destination] – Field for entering your destination ⇒ page 18, “Destination entry”.

[Intermediate destination] – Allows entering a previous destination to the final destination. A stopover destination is entered in the same way as a destination. Upon reaching the stopover, this disappears from the display, but stays in the memory of the **Last destinations** ⇒ page 18, “Destination entry”. If the stopover destination is reached, (you will be informed that “you have reached your destination”), and route guidance to the final destination is started automatically. If the stopover destination is not reached exactly, e.g., because it is not located directly on a road, you will be informed that “you have reached the destination del destino” area. Route guidance to the next destination is not started automatically.

[Route options] – Defines the parameters for route calculation ⇒ page 27, “Parameters for route calculation”.

[Settings] – Enter your location manually or start a demonstration ⇒ page 29, “Settings”. ■

Destination entry

Starting destination entry

Two addresses can be entered for the route calculation; the address of the destination and the address of the stopover destination.



Fig. 14 Destination



Fig. 15 Stopover destination

- Press the key **(NAVI)** to display the main Menu of the navigation system **(13)** ⇒ page 4, fig. 1.
- Press **(Destination)** or **(Stopover)** in the navigation main menu ⇒ page 17, fig. 13 to select one of the two options.

You will see a message that states that a destination has not yet been defined if the destination is being entered for the first time. The last used destination will be displayed if a destination has already been entered.

There are various methods of entering a destination or a stopover destination. The procedure for entering the stopover destination is the same as for the destination.

(New direction.) – Enter the destination using town and street names ⇒ page 19, “Entering a new address (town, street, house number)”.

(Last destinations.) or **(From dst.mem.)** – Select a destination from a list of destinations that have already been stored ⇒ page 20, “Last destinations”. ▶

Specific Destinations. – Enter a restaurant, a garage, an airport, border crossing etc. as a destination ⇒ page 22, “Special destinations close to the address”.

A flag destination – The position were you were located when you last pressed button  ⇒ page 4, fig. 1  is entered as the destination.

Dest. on map – Mark your destination on a map using a crosshair ⇒ page 22, “Destination on the map”.

Position destination. – Enter the longitude and latitude of a destination ⇒ page 23, “Position destination”.

Travel guide – Select a destination from the travel guide. A travel guide is only available on certain navigation CDs. Further search functions depend on the content of the travel guide.

Edit memory – Store, delete or arrange destinations in the destination memory ⇒ page 24, “Destination memory”.

Erase stopover. – Allows erasing the entered stopover. ■

Entering a new address (town, street, house number)



Fig. 16 Entering a new address



Fig. 17 Entering a town name

– Press **Town**, **Street** or **House number** to enter the names. ▶

- Enter the letters or numbers by turning and pressing the menu knob.
- A list of names or numbers is seen on the lower part of the screen. Press **OK** to go to the list.
- Select a name from the list by turning and pushing the menu knob. You can scroll through several pages of the list using the scroll markers **▲**, **⬆**, **▼** and **⬇** and confirm your selection by pressing **OK**.
- Press **Nearby destination** to select a special destination close to the destination address (town, street etc.) that you have already entered.

◀ and **▶** mark characters and **↶** deleted characters.

⌵ will display language-specific characters as necessary.

The term “Town” is used regardless of how many people live there. Both a village of 100 inhabitants and a city with 1 million are named as towns. A list of names to choose from will appear for town names which are used more than once. The system will automatically switch to street entry and then to house number entry. The centre of the town will be offered as a destination if the town is so small that none of the streets have been digitally mapped.

The keys **Street** and **House number** will not be active if a town name has not been entered.



Note

Enter an intersection and house number as described. ■

Last destinations

The last destinations that have been used will be stored automatically.



Fig. 18 Last destinations



Fig. 19 Deleting last destinations

Making a selection from the last destinations

- Press ⇒ page 18, fig. 14 **Last destinations.** to make a selection from the list of the last destinations stored ⇒ page 18.
- Turn the menu knob to make a selection from the list of the last used destinations ⇒ page 20, fig. 18. Press **i** to make an address fully visible, if it cannot be read fully.
- Press the menu knob to select the address marked in red. The Navigation main menu will appear with your selected address after a few seconds.

Deleting the list of last destinations

- Starting in the Navigation main menu ⇒ page 17, fig. 13 press the following function keys in the order indicated: **Destination**, **Edit memory** and **Delete last dest.**
- Select **Cancel** or **Delete** when confirmation is asked for. If you select **Delete**, **all** of the last destinations, including the current destination, will be deleted.

The addresses collected in the **Last dest.** memory can only be deleted all at once, not individually.

A total of 14 last destinations can be stored in the memory. A destination will not be stored in **Last dest.** until route guidance has started. If you are not able to store any more destinations, the destination memory is full. Delete either the **last destinations** memory or destinations from the destination memory ⇒ page 26. ■

Addresses from the destination memory



Fig. 20 Complete destination address

- Press ⇒ page 18, fig. 14 **From dst.mem.** to display the stored destination list.
- You can move the red bar, by turning the menu knob. Press **i** to make an address marked in this way fully visible, if it cannot be read fully.
- The address marked in red will be activated if the menu knob is pressed. The Navigation main menu will appear with your selected address after a few seconds.

You will be shown a message if the destination memory is full. Some of the destinations should then be deleted manually. ■

Special destinations close to the address

Special destinations close to the destination can be selected from a list.



Fig. 21 Special destinations close to the address

- Press ⇒ page 19, fig. 16 Nearby destination. to select a special destination close to the destination address (town, street etc.) that you have already entered.

Special destinations of the same category, e.g. restaurants, will be displayed in a list. The nearest destination will be shown in the first position.



Note

- If you have not changed your destination address entry, the area close to this last destination will be analysed and the special destinations there will be listed.
- The type and number of special destinations will be determined by the content of the Navigation CD. ■

Destination on the map

A crosshair can be used to mark a destination on the map.



Fig. 22 Destination on map

- Press ⇒ page 18, fig. 14 Dest. on map.
- Use the right-hand function keys to move the crosshair to your required destination.
- Use  or  to alter the scale to suit your search strategy ⇒ page 33, “Changing the scale” .



Note

The next section of the map will be shown after a few seconds when the crosshair is moved to the side of the screen. ■

Position destination

A destination can be entered using the exact coordinates for longitude and latitude.



Fig. 23 Position destination

- Press ⇒ page 18, fig. 14 Position destination. To enter the destination by way of co-ordinates.
- Turn the menu button to set the figure.
- Press the menu knob. The square with a red background converts to a frame of the same colour.
- Move the frame to the arc minutes and then to the hundredth of an arc minute.
- Press the menu knob again and enter the required figure.

Germany, for example, lies between 47° and 54° northern latitude and 6° and 14° eastern longitude. The route guidance function cannot be started if the

figures entered are not within this area and the navigation CD for Germany has been entered. Use the following data to estimate the position of your location:

for latitude, 1° corresponds to approximately 111 km, 1 arc minute approximately 1.85 km and 1 hundredth of an arc minute approximately 18.5 m.

for longitude, 1° corresponds to approximately 69 km, 1 arc minute approximately 1.15 km and 1 hundredth of an arc minute approximately 11.5 m.



Note

If you set the longitude higher than 180° or lower than 0°, the E will be replaced by a W (western longitude). Latitudes can be set from 90°N via 0° to 90°S and back only. ■

Destination memory

Storing destination, stopover destination, flagged destination or location

Storing the different destinations means giving them a name and storing them in the MFD2 radio navigation system.



Fig. 24 Editing the memory



Fig. 25 Storing the destination

- After entering a new address, press (starting from the Navigation main menu) ⇒ page 17, fig. 13: **Destination**, **Edit memory**.
- Press **Store dest.** to open the letter input menu.
- Enter a name for the destination, like for example “Mr. Smith” or “Vacations-accomodations”.
- Press **OK** to save the destination with the name.

The destination can now be called up from the memory as you need it. The name should be short and clear. You can also use the names that are suggested.

You enter the destination name in the same way used for entering a street name ⇒ page 19. ■

Renaming destination



Fig. 26 Renaming a destination

- Starting in the Navigation main menu ⇒ page 17, fig. 13, press **Destination** followed by **Edit memory** then **Rename destination**.
- Turn the menu knob to move the red bar to the name that you wish to change.
- Press the menu button to call up the entry function for the letters.
- Edit the name ⇒ page 19.
- If, however, you wish to keep the original name and not the new one, press the **ESC** button ⇒ page 4, fig. 1 (11). Your alterations will not be stored. ■

Sorting destinations

The various different addresses in the destination memory are stored chronologically according to their entry date and can be sorted at a later date according to your requirements.



Fig. 27 Sort: Select



Fig. 28 Sort: Store

- Starting in the Navigation main menu ⇒ page 17, fig. 13 press **Destination** followed by **Edit memory** then **Sort destinations**.
- Turn the menu knob to move the red bar to the destination that you would like to save in another position.
- Press the menu knob. **Sort: Store.** now appears at the top of the screen. You can now move the address up or down by turning the menu knob.
- Press **OK** to store the address in the new position. **Sort: select** now appears again at the top of the screen.
- Press the **ESC** button ⇒ page 4, fig. 1 **11** to close the sort function.

The other destinations will be moved down if you move a destination to a position that is already occupied. ■

Deleting individual destinations or the entire destination memory

You can, in contrast to the "last destination" memory, delete individual destinations from the destination memory.

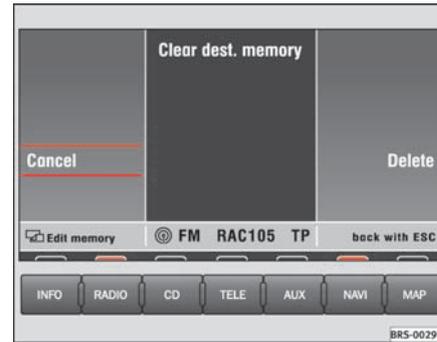


Fig. 29 Deleting destination memory



Fig. 30 Selecting entry to delete

Deleting an individual entry

- Starting in the Navigation main menu ⇒ [page 17, fig. 13](#) press **Destination** followed by **Edit memory** then **Delete destination**.
- Turn the menu knob to move the red bar to the destination that you would like to delete and then press the menu knob.
- When asked for confirmation, press **Delete**. If you do not wish to delete the destination, press **Cancel**.

Deleting the entire destination memory

- Starting in the Navigation main menu press **Destination** followed by **Edit memory** then **Clear dest. memory**.
- When asked for confirmation, press **Delete**. If you do not wish to clear the destination memory, press **Cancel**. ■

Parameters for route calculation

Route options



Fig. 31 Route options

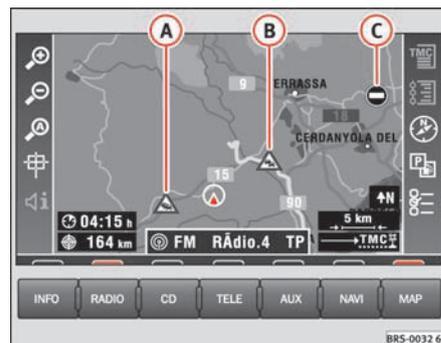


Fig. 32 Symbols for traffic problems

- Press **Route opt.** in the navigation main menu ⇒ page 17, fig. 13.

A short route might be quicker for your purpose in larger towns or cities where there are a lot of traffic jams. Route options can be altered whilst the route guidance function is active. The changed parameters will be used as a basis for the calculation of the remaining journey.

Function keys in the route option menu

Ruta

- **Fast or Short:** Determines whether a fast or short route should be calculated.
- **Dynam.:** Dynamic route guidance responds to traffic reports broadcast by TMC stations. This function will automatically guide you round traffic jams or blocked roads.

Motorway, **Ferry** or **Toll** – Determines whether motorways, ferries or toll roads should be used. These options will, however, be used for calculation if there is no other logical route to the destination (e.g. an island is to be used without using a ferry).

By default – Stores the selected settings for future route guidance usage.

Dynamic route guidance

An announcement that there are traffic jams on your route will be made if a traffic jam is registered. “You will also be warned directly before the”“traffic jam itself”.

Once the dynamic route guidance function has been activated you will be informed that the “route is being recalculated due to traffic problems” if any have been registered.

Traffic problems are indicated by a symbol on the map:

- ▲ Traffic jam ⇒ page 27, fig. 32 **A**
- ▲ Slow-moving traffic **B**
- Road closed **C**

The navigation system will calculate the quickest possible route when the dynamic route guidance option is active. The system might well guide you through a traffic jam if the diversion would be longer.

i Note

- The dynamic route guidance option will only function if you are receiving at least one TMC radio station.
- The MFD2 radio navigation system will automatically look for a new TMC station if you leave the reception area of the one you are using. The station you are listening to, however, does not have to be a TMC station.
- The dynamic route guidance option will always use motorways, ferries and toll roads.
- The navigation CD-ROM should be compatible with the TMC data.
- The quality of the dynamic route guidance depends on the information contained in the traffic announcements. The radio stations broadcasting this information are responsible for the content. ■

Settings

The vehicle position can be entered manually and you can then start a demonstration journey.



Fig. 33 Settings in the Navigation main menu



Fig. 34 Position settings

Entering your position

- Press **Settings** in the Navigation main menu ⇒ page 17, fig. 13 to enter the vehicle position.
- Press **Position location**. The entry window for the town appears. The entry for the street is made after you make your entry and confirm it with **OK**. After confirming the name of the street you will see a list of the streets which have an intersection with the named street.
- Select the intersection and confirm your choice by pressing the menu knob.
- Now enter your position either before or after this intersection in metres and also enter the direction of travel using the points of the compass.
- Confirm your entry by pressing **OK**. The screen display will return to the Navigation main menu.

Entering your position on the map

- Press successively **Settings** and **Position map** to see your set position on the map. The scale of the map can be altered using the two top left-hand function keys.
- Press the **ESC** button ⇒ page 4, fig. 1 **11** twice to return to the Navigation main menu.

Starting the demonstration

- Press **Demo** and then select **active**. The navigation system is activated. ▶

- The MFD2 radio navigation system will now travel along the route virtually from start to finish if the route guidance function is started. You can listen to announcements and look at displays.

The navigation system will need some time for an exact definition of your position if you have transported your vehicle using the train or a ferry. Your position can be entered manually if the automatic definition is not successful.

The manual position input can be used to calculate a route between any two points regardless of where the vehicle is actually located. ■

Manually excluding stretches of the journey

Stretches of the journey ahead and/or parts of the route list can be blocked manually.



Fig. 35 Blockage and traffic jam



Fig. 36 Blocking a stretch of the journey

Menu for blocking and traffic jams

- Press the traffic jam button ⇒ page 4, fig. 1 ⑩ if you want to block a stretch of the route ahead.

Entering traffic jam information

- Press ⇒ fig. 35 **Congest. ahead**.
- Turn the menu button to enter the length of the traffic jam.
- Press the menu knob. The display will be switched to the map. You will hear an announcement that: “The route is being calculated”. The excluded stretch of the route will be shown as a dotted blue line on the map.
- Press **Cancel exclusion** and **option** to include this stretch of the route in the navigation option again. ▶

Blocking part of the route list

- Press **Route list** and **Route list blocked**. You will see a part of your route list.
- Using the menu knob, move the red bar to a line that starts with **+** or **-**. The stretches of the route are broken down into sections and can be opened or closed by pressing **▶** or **◀**.
- Turn the menu knob to move the yellow bar to the start of the section that you wish to exclude from the navigation. Press the menu knob. The entry is now red.
- Turn the menu knob. All stretches of the route that are blocked will appear in red. Press the menu knob once you have marked the route section in question. The display will be switched to the map. You will hear an announcement that: “The route is being calculated”. The excluded stretch of the route will be shown as a dotted blue line on the map.
- Press **Route list** **Cancel exclusion option** to delete the blocking function.

You will be guided through a blocked area if there is no logical alternative to travelling through it.



Note

If you use a map CD which contains only major routes, you will have less alternative routes than if you use a CD which contains minor roads. To ensure that you do not have to make unnecessary detours, you should use a map CD containing all roads when you wish to be guided around congestion on the route. ■

Map and symbol displays

Information in the map and symbol displays

Information on the route will be shown in the map or symbol displays if the route guidance function is active.

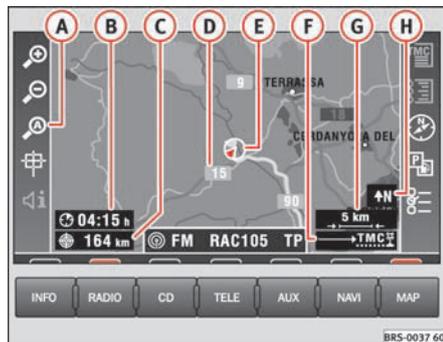


Fig. 37 Map display

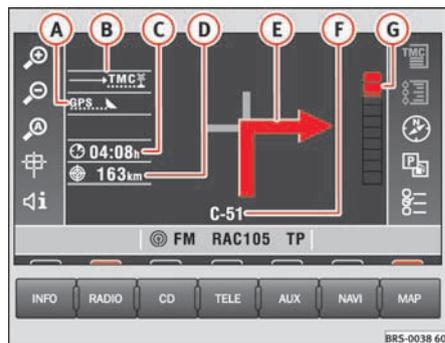


Fig. 38 Symbol display

- Press the **MAP** button ⇒ page 4, fig. 1 12. The screen will switch between map and symbol displays.

Map display

- Ⓐ Autozoom active (🔍 in red). The scale of the map will, for example, be larger for motorway driving and more detailed when making a turn.
- Ⓑ Journey time or arrival time.
- Ⓒ Distance to destination or stopover.
- Ⓓ Road name.
- Ⓔ Vehicle position. The red arrow points in the direction of travel. The route ahead is shown as a blue line.
- Ⓕ Route options and “TMC”.
 - If the dynamic route guidance option is active, the horizontal arrow is shown with a **D**, and blocked roads are shown as **⊖**.
 - “TMC”: The number of “TMC” reports received is shown by the white dots.
- Ⓖ Map scale
- Ⓗ North.



Traffic problems are indicated by a symbol on the map:

- ▲ slow-moving traffic
- ▲ traffic jam
- closed road

Symbol display

- A The number of GPS satellites.
- B Route option (in this example dynamic route guidance D).
- C Arrival time or journey time.
- D Distance to destination or stopover.
- E Turn arrow, above it the name of the street you are turning into.
- F Current road
- G The proximity bar shows how far away the turning point is. The distance to the next change of direction will be shown in the display after you have turned. ■

Changing the scale

You can choose from a total of 13 different scales.



Fig. 39 Changing the scale

– Press  or .

 – More details. A scale display appears in the top left-hand corner when the button is pressed ⇒ fig. 39

 – Large overview. A scale display appears in the top left-hand corner when the button is pressed.

The selected scale will be shown once the menu knob is pressed or after 3 seconds. ■

Changing display options

The map type and display can be selected, although some settings cannot be seen until active route guidance has started.



Fig. 40 Display options

- Press ⇒ page 32, fig. 37  to change the display options.

Map type

- **Location** – Shows your position on the map.
- **Destin.** – Shows the area surrounding your destination
- **Overview** – Shows the entire route.

The map will always be shown in the direction North at the top if you have chosen the map type **Overview** or **Destin.** In the map orientation **autom.** a detail map (up to 2 km per cm) with the direction of travel at the top and an overview map (as of 5 km per cm) with North at the top will be shown.

Alignment

- **auto.** – The system selects the map display
- **Travel** – The display always adjusts to the direction of travel.
- **To the north** – North is always at the top of the display.

Autozoom

- **high** – Al seleccionar automáticamente la escala se prefiere una escala menor.
- **approx.** – Larger scales are given priority for the automatic scale selection.

The adjustments performed in **Autozoom** are used only if you have pressed  in the scale map ⇒ page 32, fig. 37 **A**.

Time format

- **Travel t.** – Shows the remaining travel time.
- **Arrival** – Shows the estimated arrival time ⇒ page 32, fig. 37 **B**. ■

Traffic reports display

Short texts of traffic reports that have been received can be called up from a list.



Fig. 41 Traffic reports

- Press  in the map display ⇒ page 32, fig. 37.
- Or press  and .
- Turn the menu knob to move the yellow bar to the traffic report you are interested in.
- Press  to see the full text of the traffic report. ■

Moving the map section using the crosshair



Fig. 42 Crosshair

- Press  in the map display ⇒ page 32, fig. 37 to call up the shift function.
- Using the right-hand function keys or by turning/pressing the menu knob, move the the crosshair to the destination of your choice.
- Use the scale modifications to adapt the display to suit your requirements ⇒ page 33

The neighbouring map section will be displayed if you move the crosshair to the side of the screen. This procedure can take some seconds. ■

Augmenting map contents

A range of symbols can be used to display additional map content.



Fig. 43 Map contents

- Press  in the map display ⇒ page 32, fig. 37.
- Turn the menu knob or use the right-hand function keys to move the yellow bar to the map detail you are interested in.
- Press the menu button or the key . A "tick" will appear next to the map detail.



Note

You can lose the overview of the map if too many map details are selected. ■

Route list

The route list is a list of all route sections which will be travelled through with active route guidance.



Fig. 44 Trajectory route list

- Press  in the map display ⇒ page 32, fig. 37 to see the route sections of your current journey.

The route list is updated during the journey. It shows the roads that you have not yet reached. Route sections that you have already travelled will be deleted from the route list.



Note

It takes some seconds after route guidance has started for the route list to be compiled so that it can be displayed. ■

Position display

The current information on the position of the vehicle is shown here.

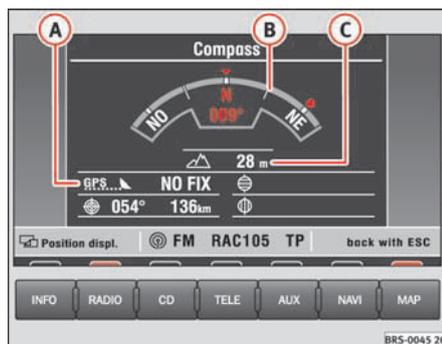


Fig. 45 Position display

- A** GPS status (number of satellite receptions, positioning mode) including the direction and distance to destination (with active route guidance).
- B** Direction of travel
- C** Altitude (GPS altitude). If too few satellites are received to calculate the altitude, the display is grey.
- Φ GPS position (longitude)
- \ominus GPS position (latitude)

The direction of travel is shown in degrees and also in the form of a compass.

The GPS status shows the number of satellites as dots and also shows the positioning mode (NO FIX, 2D FIX, 3D FIX).

- **NO FIX** – The GPS reception is not sufficient to fix the position of the vehicle.

- If the position definition for **NO FIX** is only possible using the wheel sensors (underground garage etc), the GPS coordinates will be displayed in grey. The GPS coordinates will no longer be shown following a long distance with **NO FIX** in the display or if it is not possible to determine the position.
- **2D FIX** – The horizontal position of the vehicle can be determined, but not the altitude (is indicated in grey).
- **3D FIX** – Position and altitude can be determined.

The altitude may oscillate between 0 m and +5000 m with a margin of error of ± 15 m. The exactness varies in function of the GPS reception quality or of the climatic conditions.

The direction to the destination is shown in the form of a marking outside the compass. If the destination is not in the area displayed by the compass (i.e. to the side or behind the vehicle), the marking is shown as an arrow to the side in question. ■

Route guidance

Starting/stopping route guidance



Fig. 46 Ending route guidance

- Press **[begin guide]** You will hear an announcement that: “The route is being calculated”. The MFD2 radio navigation system will automatically switch to the map display.
- Press the button **[NAVI]** to return to the Navigation main menu.
- Press **[Stop route gd.]** if you wish to stop the route guidance function before you have reached your destination.

The route guidance function can only be started if you have already entered a destination.

Note

- You should drive on a bit further if the system makes the announcement that: “You are not on a digitalised street”, before starting route guidance. It may be that the unit is positioning itself.
- The active route guidance function will be interrupted if a stopover destination is entered. ■

Announcement of navigation recommendations

Navigation recommendations are made as voice announcements and also in the display.



Fig. 47 Map display



Fig. 48 Symbol display

- Press the **MAP** button ⇒ page 4, fig. 1 **12**.
- Press **CD** if you want to hear the current navigation recommendation ⇒ **!**.

Once the route is calculated the first recommendation is heard, for example “Continue on the street”. Before turning you may hear up to three messages, for example, “Prepare to turn left”, “Turn left after 200 m” and “Now turn to the left”. A proximity bar will be shown in the display on the right-hand side of the turn arrow shortly before the last announcement is made. The proximity bar shows how far away the turning point is. The distance to the next change of direction will be shown in the display after you have turned.

On roads with more than one lane that cross, you will be informed of the lane to drive on, for example “Prepare to continue on the left” and “Now continue on the left”.

You will also be told which exit to use off a roundabout before you enter it, e.g. “That you should leave by the second exit.” In a roundabout this means “Turn on the second exit to the right”.

An announcement will be made when you reach your destination. If the navigation CD contains the destination street, you will hear the following message: “You have reached your destination”, otherwise “You have reached the destination area”. The latter may occur if you have entered the destination using coordinates and it is not on a road.



WARNING

The driver must concentrate on the voice announcements and also on the traffic around you. The recommendations made on the basis of the information on the CD may differ from what you actually see due to incomplete data or a different road layout (e.g. due to road works). Please keep to traffic regulations and ignore the navigation recommendations if necessary.

- Traffic signs and legislation always have priority over the recommendations made by the system.

 **WARNING (continued)**

- **Please observe the important safety warnings ⇒ page 16, “Safety”**

**Note**

The direction arrow in the map display will be faded out if you are travelling in the same direction for an extended period. ■

Information and system settings

Information

The MFD2 radio navigations system stores text and spoken announcements made by the radio stations and draws up a route list whilst the route guidance function is active.

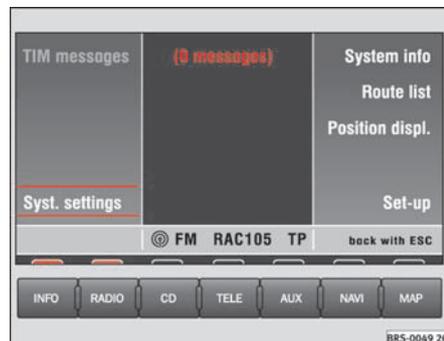


Fig. 49 Info main menu



Fig. 50 Setting the TIM time

- Press **INFO** button ⇒ page 4, fig. 1 **18** to enter the Info main menu.

Function keys in the Info main menu

The function keys **TIM bulletins**, **Travel inform.**, **Route list** and **TMC stations** are displayed in grey if no further information is available.

TIM messages – Plays back recorded traffic reports (Stop by pressing **ESC** ⇒ page 4, fig. 1 **13**).

The TIM messages are stored chronologically. The latest message is at the top of the list. The selection bar will spring automatically to the next message once the first message has been played. The system will return to the main menu after the last message has been played and will then reactivate the audio source that was being used. All of the messages will be played if another menu button, e.g. **RADIO** is pressed whilst a TIM message is being played. The oldest announcement will be overwritten if the memory is full. ▶

TMC stations – Displays a list of receivable TMC stations. Select a station whose traffic reports should be played if you happen to be listening to another radio station. A different station will be chosen automatically if the selected station can no longer be received.

Traffic bulletins – Displays a list of the latest traffic reports ⇒ page 35.

System settings ⇒ page 42

System Info – Displays the software version installed in the MFD2 radio navigation system.

Route list – Displays a list of the streets on the route to the destination. Use the menu knob to page through the street lists that are on your navigation route. Press **i** if an entry is not fully displayed.

Position display ⇒ page 37

Settings

- **TIM hour 1** and **TIM hour 2**: Here you may enter two departure times, for example, 7:00 h and 17:30 h. The system starts to record bulletins during two hours, one hour and a half before the departure. This means that you will have up to date traffic information right from the start of your journey.
- **TIM standby** – Traffic reports will be recorded for two hours after you have switched off the unit.



Note

The list of announcements cannot be opened whilst a traffic announcement is being made, as it is also being recorded. ■

System settings

In the system settings menu, you can select different languages for the displays and oral announcements and adjust the screen brightness.



Fig. 51 System settings

- Press ⇒ page 41, fig. 49 **System settings** in the main menu information to display the possible settings. You can also call up the system settings from the Radio main menu by pressing ⇒ page 8, fig. 4 **Settings** or from the CD main menu ⇒ page 11, fig. 9.

Function keys in the Settings menu

Language – Shows a list of available languages for display texts and voice messages. Select a language by turning and pressing the menu knob. You will see a display text in the chosen language. Do not press any further keys until the loading sequence is finished. ▶

Day/Night – You can set the screen brightness to be adjusted to suit the light conditions when the headlights are switched on.

- **auto:** When turning on the head lights, the display will automatically change from day to night.
- **manual:** With  => page 4, fig. 1  you may switch between the day and night displays.

Contrast day and **Contrast night** – Sets the screen settings for the day and night display.

Hour – If the system does not have the correct time, you may adjust the clock by turning and pressing the menu buttons. The data for the arrival time is oriented towards this time if the route guidance function is active.



Note

The language can only be changed if the navigation CD has been inserted. ■

External units

Calling up external units

- **VIDEO:** The unit sends video signals only.
- **OFF:** There is no unit connected. ■

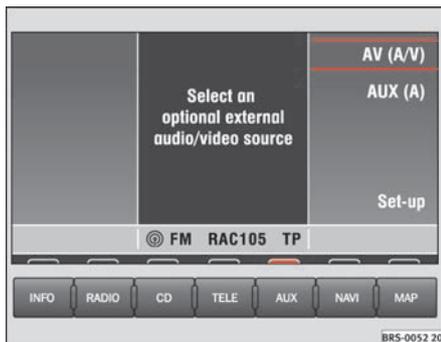


Fig. 52 Main menu AUX

Calling up external units

- Press the key **AUX** ⇒ page 4, fig. 1 **14** to enter the AUX main menu.

Function keys in the AUX main menu

AV (A/V) – switches over to an external audio (**A**) or video (**V**) source.

AUX – Switches to an audio unit which is connected to the system.

Settings – Settings for the units connected to the system:

- **A+V:** The unit AV1 or AV2 sends audio and video signals (sound and picture).
- **AUDIO:** The unit sends audio signals only.

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