



Operating Instructions for On-Board Computer with Navigation and TV. Advanced technology.



The on-board monitor offers you a great many functions which will make your journeys even safer and more of a pleasure.

The GPS navigation system means that you do not have to consult printed maps or search for road signs; it brings you accurately to any destination shown on the map CD.

The radio, cassette and CD ensure the best possible signal reception and choice of entertainment for all listeners' tastes, and take the monotony out of even the longest journey. The DSP sound system transports you to the concert hall, jazz club or cathedral – with the ideal audio environment for every station.

The on-board computer calculates data relevant to the journey – average fuel consumption, range and estimated time of arrival. It also provides additional safety when driving – for example by supplying a warning signal if your car's speed exceeds the limit you yourself have selected.

The car's auxiliary fuel-burning heater and independent ventilation control system with provision for advance programming ensure that a pleasant interior climate always awaits you when you enter the car.

An individual code number can be input as an additional safeguard against theft of your vehicle.

The TV with teletext ensures a supply of topical information and provides in-car entertainment while you are waiting.

The GSM car phone means that you can always be contacted and make outgoing telephone calls.

We wish you an enjoyable motoring experience.

BMW AG

Notes on these Operating Instructions

So that you can enjoy using the on-board monitor as soon as possible, the first section of this handbook describes all the navigation system, radio, on-board computer and TV functions you are likely to need most frequently.

These examples explain how to use the simple menu guidance procedure to allow you to gain rapid access to all the facilities which the equipment offers.

The on-board monitor and the instructions can be regarded as a single unit: Whenever the equipment guides you through its various functions, these details are not repeated in the handbook. The same applies to self-explanatory screen displays.

Since there are other methods of operating the telephone as well as by way of the on-board monitor, the complete telephone operating instructions are issued in a separate handbook.

The quickest way to locate specific topics is by reference to the index at the end of the handbook – all the technical information you need and details of how to look after the equipment are given in "Technical features in detail". And so that minor malfunctions do not interfere with the versatility of your on-board monitor, the section headed "What to do if ..." contains an overview of queries which may arise.

Should you sell your BMW at a later date, please remember to pass these Operating Instructions on to the next owner – it is a legally required element in the vehicle's specification.

Symbols used



identifies details which are essential for you to read – for your own safety and that of others, and to protect the on-board monitor or the complete car from possible damage. ◀



is used to identify details of special features. ◀

◀ marks the end of a specific item of information.

* identifies optional extras or specific national-market items of equipment, and also accessories.

If you have any queries, BMW Service will be glad to advise you.

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Equipment

Your on-board monitor has the following basic equipment specification:

- ▷ GPS navigation
- ▷ Radio with cassette player
- ▷ Code for engine immobiliser
- ▷ On-board computer
- ▷ Television (TV)

Further equipment which can be specified:

- ▷ Car telephone
(separate handbook)
- ▷ CD changer
- ▷ Digital Sound Processing (DSP)
sound system
- ▷ Auxiliary fuel-burning heater/
independent ventilation control.

If your car is equipped with a multi-function steering wheel, the controls on the wheel can also be used to operate the radio. In a BMW 7 Series model, there is a connection for a rear-seat TV with video recorder, so that passengers occupying the rear seats can watch TV while the car is being driven.

Status at time of printing

The advanced technological features and high quality standard of BMW equipment are maintained by an ongoing development process. This may lead to discrepancies between the information in this handbook and the actual equipment installed in or on the car. Nor can errors and omissions be entirely ruled out. You are therefore asked to appreciate that no legal claims can be entertained on the basis of the data, illustrations or descriptions in this handbook.

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Radio, cassette, CD, DSP Sound System

**On-board computer, code,
auxiliary heater/ventilation**

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Initial overview

GPS navigation

Radio, cassette, CD, DSP Sound System

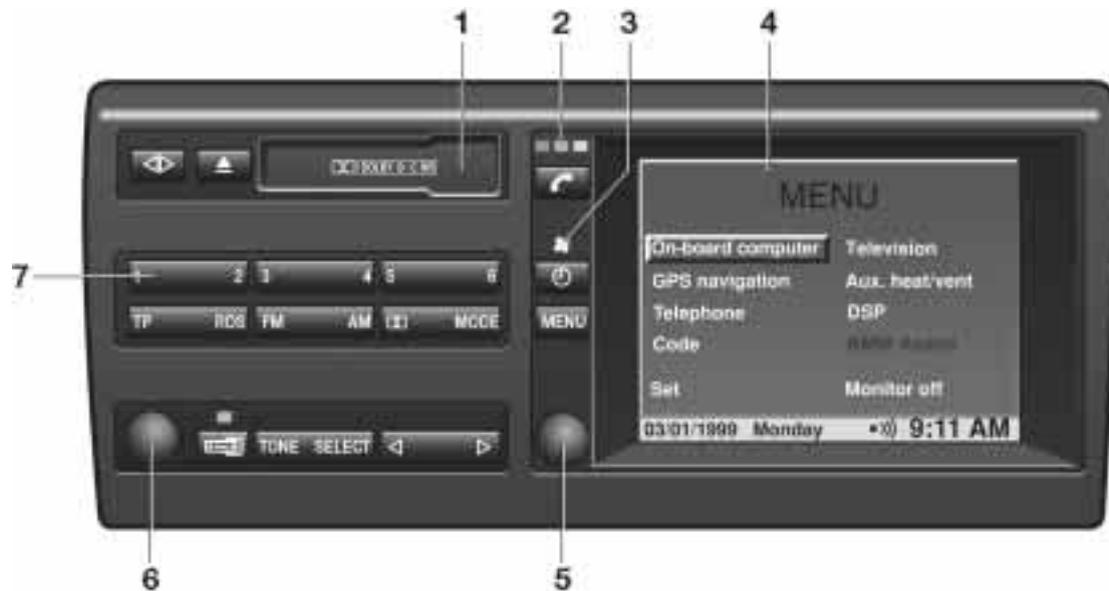
On-board computer, code, auxiliary heater/ventilation

Television (TV)

Technical items in detail

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10 The on-board monitor at a glance



The on-board monitor at a glance

Displays and controls

- 1 Tape slot
- 2 Telltales for the car phone
 - Yellow:
The telephone is logging onto another network
 - Green:
A connection has been established
 - Red:
Comes on if telephone operation is not possible;
flashes if the telephone is not registered in a network.
 - It is always possible to make emergency calls, irrespective of these displays.
 - There are separate operating instructions for your telephone.
- 3 Telltale for auxiliary fuel-burning heater or independent ventilation control
 - On: auxiliary fuel-burning heater or independent ventilation control is programmed
 - Flashing: auxiliary fuel-burning heater or independent ventilation control is running.
- 4 Monitor for displaying all systems available on the on-board monitor
- 5 All on-board monitor systems are operated using this knob.
 - Turn: this selects a system or a displayed function or setting.
 - Press: this confirms the selection and starts the system or function, or confirms an input.
- 6 Audio volume is adjusted at this knob.
 - Press: switches the radio on and off
 - Turn: to vary volume of
 - ▷ radio, cassette, CD
 - ▷ hands-free use of the telephone
 - ▷ navigation announcements.
- 7 Station buttons for radio operation

12 The on-board monitor at a glance

Tuning the radio



Each time this button is pressed, the radio cycles through the AM preset ranges MW (medium wave), SW (short wave) and LW (long wave).



Each time this button is pressed, the radio changes between the FM preset ranges FM and FMD (diversity function = 2 receivers).



There are 6 station preset buttons for FM (VHF) and 6 each for MW, SW and LW.

These buttons are also used for selecting a particular CD.



Switching TP function on/off:

Traffic reports are also received during cassette, CD and TV operation, or if you are tuned to a station which does not broadcast traffic reports.

You can tune to a special traffic report station.



Call up the RDS function and choose between:

- ▷ RDS On/Off
On FM (VHF), you can switch on the RDS function to have the station's name displayed
- ▷ Region On/Off
On FM (VHF), certain stations may broadcast regional stations either all day or at certain times of day only
- ▷ Freq On/Off
The frequency can be displayed in addition to the name of the station.

Searching for a station or title



Call up the search function and choose between:

- ▷ m Manual station selection
- ▷ SCAN search
- ▷ II Search sensitive (weak signal)
- ▷ I Search non-sensitive (strong signal).



Search in the radio, cassette and CD modes.

Changing mode



Each time the button is pressed, the mode switches between radio, cassette and CD.



The display on the monitor switches between the radio functions (radio, CD, cassette) and the on-board monitor system that is currently active.



The on-board monitor's general menu appears – you can now select from the systems displayed.

Also returns you from each display or setting to the general menu. Therefore also important if you wish to interrupt an adjustment.

Cassette



Switching **II** B or C on/off: see page [76](#).



To change tape direction.



Cassette eject

Tone control



To call up tone control and select between:

- ▷ Bass: amplifies or attenuates low notes
- ▷ Treble: amplifies or attenuates high notes
- ▷ Fader: louder at front or rear
- ▷ Balance: louder on right or left.

Auxiliary fuel-burning heater/ independent ventilation control/ time



- ▷ Switches independent ventilation control off

Shows the time in ignition key position 0.

Radio-controlled clock in the BMW 7 Series

The time is automatically corrected. If you are currently in a time zone other than Central European Time (e.g. Portugal), the hour display can be changed using the input buttons.

The date is automatically adjusted.

If your car is momentarily unable to pick up the radio signal, e.g. when in an underground garage with concrete walls or driving through a mountain gorge, or due to local interference from other electrical equipment currently in use, such as a laptop or a retrofitted mobile phone, the time and date can be changed, see page [27](#).

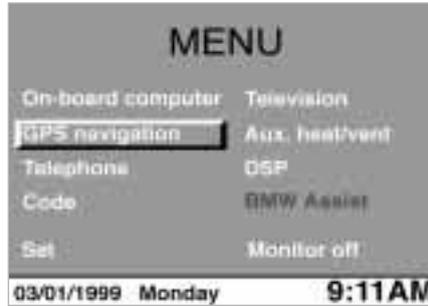
14 Input of a destination address and guidance to it

An example of how to use the GPS navigation system to find the following destination in Germany:

Munich, Leopoldstrasse 194



Only enter data when the car is standing still, and always obey the traffic regulations and road signs in the event of any contradiction between the traffic situation and the instructions given by the navigation system. Failure to do so may result in an infringement of traffic laws and put the car's occupants and other road users at risk. ◀



1 Select GPS navigation



The general menu appears.

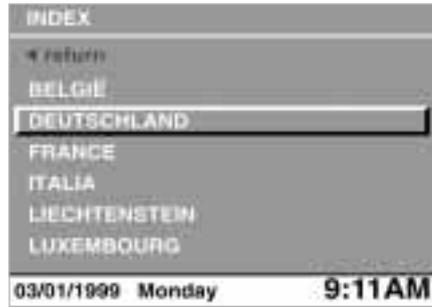


- 1 Turn until "GPS navigation" is highlighted.
- 2 Press to start the system.



2 Enter destination country

If the name of a country appears on the monitor in white letters, data for more than one country is stored on the map CD.



To select Germany as the destination country:



- 1 Turn until the currently displayed name is highlighted.
- 2 Press to call up a list of all available countries.
- 3 Turn until "Deutschland" is highlighted.
- 4 Press to accept your selection as the destination input.



3 Input the destination

"City:" or the name of the last destination city entered is highlighted.

To select Munich as the destination:



- 1 Press to activate the input.
- 2 Turn until "M" is highlighted
- 3 Press to confirm the selection.

Use the same procedure to select all the remaining letters of the destination "Munich", until the name of the city is recognised beyond all doubt and displayed in full.



- 4 Turn until "enter" is highlighted.
- 5 Press to store the destination city.

16 Input of a destination address and guidance to it



4 Input the road and house number

"Road" or the name of the last destination road entered is highlighted.



- 1 Press to start the input
- 2 Turn until "L" is highlighted.
- 3 Press to confirm the selection.

In the same way, select all the remaining letters of "Leopoldstraße" until the road is identified beyond doubt and displayed in full.

After entering the road, you can select a house number, e.g. "194".



- 4 Turn until "1" is highlighted
- 5 Press to confirm the selection.

In the same way, select all the remaining numerals making up the building or house number.



- 6 Turn until "enter" is highlighted.
- 7 Press to complete the entry.



If the building number is not stored on the CD, the nearest building number will be entered. There will be no option for entering numbers if no house numbers are stored on the map CD for the street. Destination guidance can be started straight away. ◀



5 Start destination guidance

When you have entered the complete destination address, the city, road and house number are displayed on the monitor; "Dest. guide" is highlighted.



Press to start destination guidance.

While the navigation computer is calculating a route to your destination, the distance and direction to the destination as the crow flies is displayed at the top right.

Input of a destination address and guidance to it



Once the route has been calculated, the name of the road which the arrow instructs you to take and the distance to the next junction are shown at the top left.

A change of direction is indicated by the spoken instructions.

The distance to the next turning is shown at the top right. An arrow indicates the direction of the chosen destination as the crow flies.

Your current position is shown at the bottom left.

 In areas which are not yet fully covered by the map CD, a directional arrow indicates the route to be taken. This should help you decide which way to go when you reach a fork in the road or a junction. ◀

To repeat the last direction announcement:



- 1 Turn until "Instruction" is highlighted.
- 2 Press the button.

 You will likewise be directed to your destination if you select another function of the on-board monitor with the menu button, e.g. radio or on-board computer. A spoken instruction will be given and a visual display will appear on the screen well before the next turning, informing you of any change of direction required. ◀

18 Selecting a station



1 Switching on the radio



Press the left-hand button:
A display appears on the screen informing you about the current settings.



Switch off the function "Audio+OBC" if on-board monitor functions appear on the screen when the system is switched on, see page 27. ◀

2 Reading off information

Bayern 3
Name of radio station.

FMD
Waveband; for other wavebands, see next column.

P3
Station button, number of preset.

TP
Traffic Programme is switched on, see page 80.

T
May appear instead of "TP", and means:
The Traffic Programme is not switched on, but the radio is tuned to a station which broadcasts traffic reports.

RDS
Radio Data System is switched on:
Station names are displayed and the strongest frequency on which the station can be picked up is searched for automatically, see page 79.

REG
Regional stations can be received, see page 52.

>>
Further stations can be displayed.

3 Selecting the waveband



Changes over as follows each time the button is pressed:
FM/FMD = VHF
AM = MW/SW/LW

4 Selecting station search

The device is equipped with an RDS (VHF) diversity function (2 receivers) in the FM range, which means that the names of all receivable stations appear automatically on the screen.

If you are tuned to a station which does not broadcast traffic reports, when the button



is pressed, the radio automatically activates a traffic report station in the background. The programme on the station you are tuned to is then interrupted by traffic reports.



- 1 Turn until the desired station is highlighted.
- 2 Press to select this station.

Tone control



TONE

Press this button repeatedly until the desired tone setting is highlighted (in this example, "Balance").



Press until the desired setting is reached.

Alternatively:

TONE

Press the button.



- 1 Turn until the control symbol for the desired feature is highlighted, e.g. Balance.
- 2 Press to select this function.
- 3 Turn to change the setting.
- 4 Press to store this setting.

To adjust all tone settings to medium values:

TONE

Keep the button pressed in.

The display goes out eight seconds after the button has last been pressed. The modified settings are stored automatically.

20 Traffic reports

Switching on



Press the button.

The radio then broadcasts traffic reports even if the station you have selected does not do so.

While traffic reports are being received, TV reception and cassette or CD play are interrupted. The speech output of the navigation system, however, remains active.

Displays and signals

TP

Traffic Programme switched on.

T

TP not switched on, but the selected radio station does broadcast traffic reports.

Continuous tone

No traffic report station can be found.

Adjusting volume



Turn the left-hand knob during a traffic report until the desired volume is obtained.

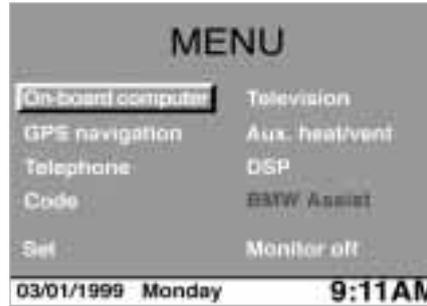
This volume is retained for traffic reports even if you set other audio sources to minimum values.

Selecting road speed at which limit signal is heard

An example for operating the on-board computer:

You decide to limit your speed to 130 km/h (approx. 80 mph) when driving on a motorway and therefore want a limit signal to be given when you have reached this road speed.

 Perform all inputs while the vehicle is stationary. The car's occupants and other road users could otherwise be put at risk. ◀



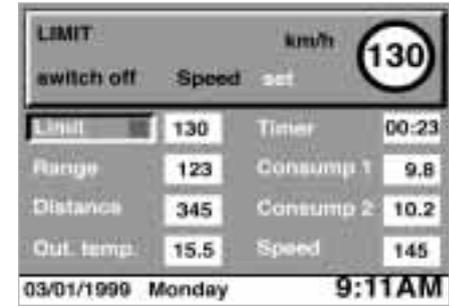
1 Selecting the on-board computer



The general menu will appear.



- 1 Turn until "On-board computer" is highlighted.
- 2 Press to select it.



2 Selecting function



- 1 Turn until "Limit" is highlighted.
- 2 Press to enable inputs to be made.

22 Selecting road speed at which limit signal is heard

3 Entering speed limit



- 1 Turn until "set" is highlighted.
- 2 Press to begin making inputs.



- 3 Turn until the desired speed
130 km/h is displayed.
- 4 Press to store this value:
A green rectangle lights up next to
the word "Limit".

Limit reached

- ▷ The warning signal is heard.
- ▷ The rectangle next to the word "Limit" turns red.
- ▷ The selected limit speed is shown briefly in the instrument cluster .

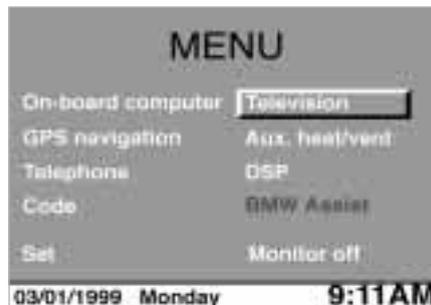
The speed limit reminder is only repeated if the car has in the meantime been driven at least 5 km/h (approx. 3 mph) slower.

Example of TV operation:

You wish to store the 10 TV stations with the strongest signal automatically and then call a station up on the TV screen.

For your own safety, the TV image is received only up to a speed of 3 km/h (approx. 2 mph), whereas the accompanying sound signal can be heard while the car is being driven.

 Perform all inputs while the vehicle is stationary. The car's occupants and other road users could otherwise be put at risk. ◀



1 Selecting Television



The general menu appears.



- 1 Turn until "Television" is highlighted.
- 2 Press to select it.



2 Stations, storing automatically



- 1 Turn or press until the TV menu is shown.
- 2 Turn until "Autostore" is highlighted.
- 3 Press to start an automatic station search and store routine.

If the inputs are not made within four seconds, this process will have to be repeated, as the menu disappears again.

The first 10 stations are stored in preset locations 21-30.

24 **Automatically storing TV stations and viewing enjoyment**

3 Selecting a station

The station stored on preset 21 is automatically shown.

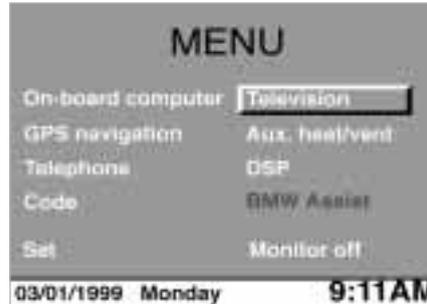
To select a different stored station:



Turn until the desired station appears.

Teletext can be used to display the latest news from the world of politics, business, culture, society and sport, the weather forecast and the traffic situation on the monitor.

 Perform all inputs while the vehicle is stationary. The car's occupants and other road users could otherwise be put at risk. ◀



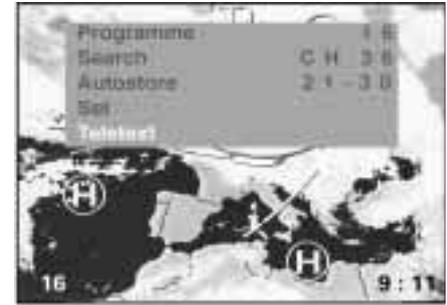
1 Selecting Television



The general menu appears.



- 1 Turn until "Television" is highlighted.
- 2 Press to select it.



2 Selecting teletext



- 1 Turn or press until the TV menu is shown.
- 2 Turn until "Teletext" is highlighted.
- 3 Press to see the teletext bulletins.

If the inputs are not made within four seconds, this process will have to be repeated.

26 Latest information always available via teletext



3 Selecting information



- 1 Press to enter the teletext menu.
- 2 Turn until "Page" is highlighted.
- 3 Press and turn until the desired page number appears at the top left.

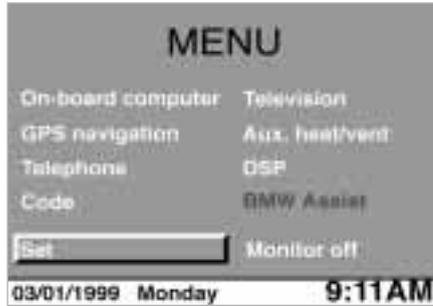
The page will be located and displayed. Subsequent pages will be displayed automatically if the information extends over more than one page.

4 To quit teletext



- 1 Press to enter the teletext menu.
- 2 Turn until "Television" is highlighted.
- 3 Press to return to TV reception.

Changing the settings



Your car is supplied with a basic setting for all displays, which depends on the country for which the car is intended. These settings can also be changed as preferred individually.

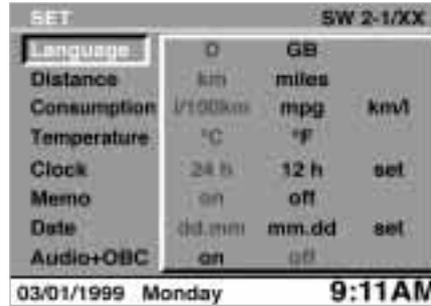
Changing the settings

MENU

The general menu will appear.



- 1 Turn until "Set" is highlighted.
- 2 Press to obtain a display of possible settings.



You can change the language of the display texts, the units of measurement for distance, fuel consumption and temperature, the time and date, and the way these are expressed.

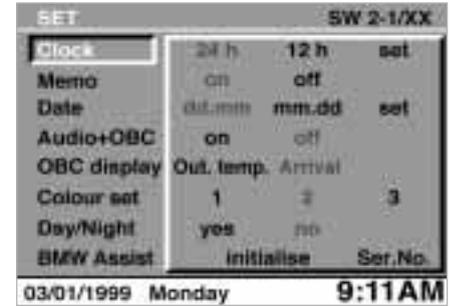
SW 2-1/XX means: generation 2 software status, version 1.

"XX" indicates the current version.

The following can also be changed by turning the control further:

Memo: shortly before the hour, three signal tones will be emitted.

Audio+OBC means: radio and on-board computer displays appear on the monitor at the same time.



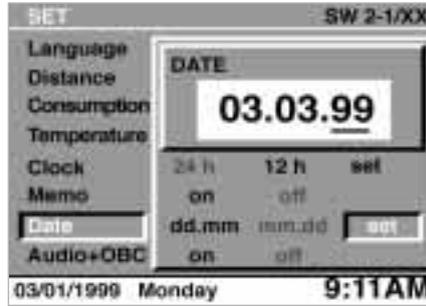
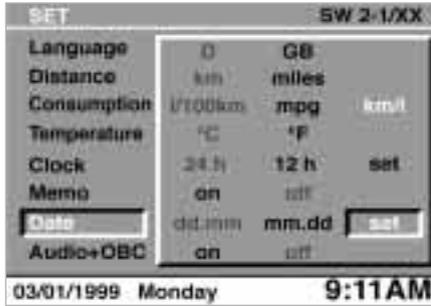
On-board computer display: you can choose whether to have the outside temperature or your estimated time of arrival shown in the general menu.

Colour set means: you select a set of colours for the screen display from the three options available.

Day/Night means: you can switch the automatic day/night changeover function for colour set on or off.

BMW Assist*: you can initialize or update the emergency call function information service if these have been arranged for you by BMW Service or BMW Customer Information.

28 Changing the settings



In the following example, the date is used to illustrate the operating principle.

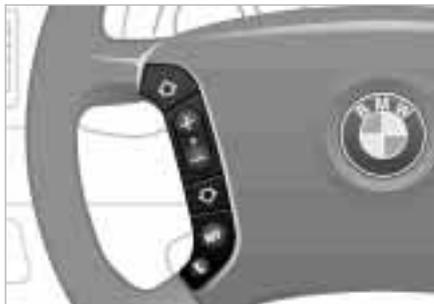
To change the date

- 1 Turn until "Date" is highlighted.
- 2 Press to confirm this.
- 3 Turn until "set" is highlighted.
- 4 Press to start the adjustment procedure.



- 5 Turn to adjust the year.
- 6 Press to store.
- 7 Set the month and day in the same way.
The date entry is stored with your last save.

You can also choose the order in which you wish the date to be displayed: Either the days (dd) first, followed by the months (mm) – or in the opposite order.



You can select the following radio, cassette and CD functions conveniently and safely without removing your hand from the multifunctional steering wheel. Consult the separate operating instructions for details of how to use the telephone.

Adjusting volume



Changing to next station or title



To reach the next station in the selected waveband or the next music title:

- ▷ Press the button briefly.

Fast station search (radio) or fast forward/reverse:

- ▷ Keep the button pressed in.

Special feature of cassette replay:

The next music title is only recognised after a period of silence lasting at least four seconds. To stop the search if necessary:

- ▷ Press the button again briefly.

Special feature of radio:

You can specify whether to jump to the next possible station or the next stored station:



Press and hold in until PRES ON or PRES OFF ("PRES" stands for PRESET) appears on the monitor.

PRES ON:

Jumps from one stored station to the next.

PRES OFF:

Jumps to the next station.

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Initial overview

GPS navigation

Radio, cassette, CD, DSP Sound System

On-board computer, code,
auxiliary heater/ventilation

Television (TV)

Technical items in detail

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The navigation system means you no longer have to read maps during a journey. It therefore constitutes a significant contribution towards improved road safety.

 Only enter data when the car is standing still, and always obey the traffic regulations and road signs in the event of any contradiction between the traffic situation and the instructions given by the navigation system. Failure to do so may result in an infringement of traffic laws and put the car's occupants and other road users at risk. ◀

 Do not place any metallic objects, e.g. umbrellas, on the rear window shelf near the GPS aerial, as such objects may interfere with GPS reception and the navigation system may fail to operate accurately. ◀

Getting started

The menu guidance principle is described briefly below. A detailed example may also be consulted on page 14.

To call up the general menu:



Select as follows:



- ▷ Turn to select the navigation system or its functions, or to enter a value.
- ▷ Press to confirm the selection.

To exit from the navigation system, press the following button again:



Destination input in detail



If you know the place and street

An example for input of the place and street of your destination address is given on page 14.

For inputs, please follow the menu guidance.

Destination input in detail

Note the following special features:

- ▷ If you do not enter a street name, you will be guided to the boundary of the town or village.
- ▷ Depending on the data stored on your map CD, you may also be able to enter a house number for certain streets, see page 16.
- ▷ You can skip input of the country or place if you wish to retain previous inputs.
- ▷ You can correct the last input with "Delete". To cancel the whole entry, keep pressed for longer.



If you do not know the place-name or street name exactly

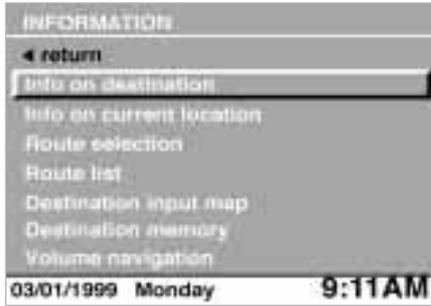
In this case, consult the "Index" before entering the place and street. The index will display all the places on the map of a particular country, and all the streets in a specified place.



You can restrict the number of names displayed in the directory by first entering one or more letters of that name before selecting the "Index" function.

When you have found the entry you want in the index, select it – it will then be transferred to the destination guidance system.

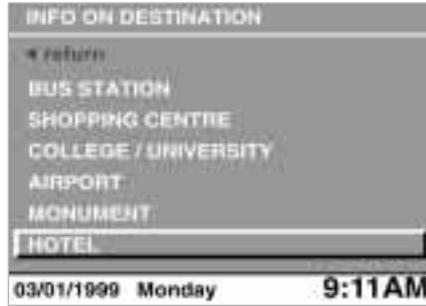
34 Destination input in detail



You do not know the address of your destination

For instance, you may be looking for a hotel, restaurant or garage, the nearest BMW Service point, a tourist attraction or a hospital... but you don't have its correct address.

- 1 Enter the desired town or village.
- 2 Select "Information".
- 3 Select "Info on destination"; various types of destination are listed.



- 4 Select the desired type of destination, e.g. "Hotel".
- 5 Select "Index" and choose one of the hotels from the alphabetical list. You can restrict the number of names displayed in the directory by first entering one or more letters of that name before selecting the "Index" function.

Information on hotels can be displayed either as text or using symbols:

-  Parking
-  Restaurant facilities
-  Swimming-pool
-  Credit cards accepted
-  Disabled facilities
-  Children's facilities
-  Conference facilities
-  No-smoking areas and/or rooms

Destination input in detail



- 6 Turn to select the address.
- 7 Press to transfer this information to the destination guidance system.

Select "Functions" to obtain further information on the hotel you have selected or to return to the index.



If you have a BMW car telephone or a BMW mobile phone installed in your car, you can mark the telephone number of your destination and dial the number in a single key push. ◀

With the "Info on current location" function, you can create a list of up to ten destinations of various kinds, arranged in order of distance from your current position.

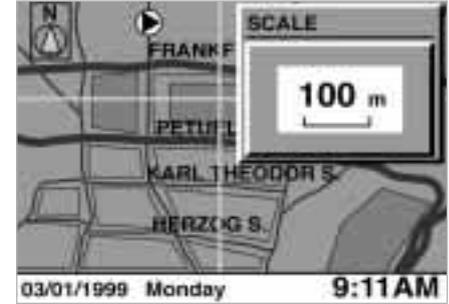
Each entry is accompanied by the distance calculated by the navigation system and an arrow indicating the direction as the crow flies.



If you know the town but not the exact position of the street

The system offers you maps on which you can identify your destination with cross-hairs, then transfer this information to the guidance system.

- 1 Enter the place-name.
- 2 Select "Information".
- 3 Select "Destination input map".



- 4 If necessary, change the scale:



- ▷ Turn and mark "Scale". If the following inputs are not made within four seconds, this process will have to be repeated.
- ▷ Press to confirm this.
- ▷ Turn until the desired scale is appears.
- ▷ Press to input this value. If the scale is greater than 1 km, the "Save destination" function cannot be selected.

36 Destination input in detail



- 5 Localize the destination with the cross-hairs:



- ▷ Turn to select "Cursor".
- ▷ Press to confirm this.
- ▷ Turn and choose the horizontal point of intersection.
- ▷ Press to retain this value.
- ▷ Turn to choose the vertical point of intersection.
The map scrolls across the monitor as soon as the cross-lines reach the edge.
- ▷ Press to retain this value.

- 6 Transfer to the destination guidance system:



- ▷ Turn until "Save destination" is highlighted.
If the scale is greater than 1 km, the "Save destination" function cannot be selected.
- ▷ Press to transfer the destination.



- You can also use the destination input map function without specifying a place name. This allows you to select a destination with the cursor and then transfer this information to the guidance system. ◀



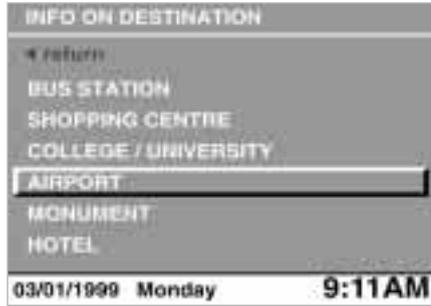
You are looking for an interesting destination

The map CD currently inserted also contains various places of interest in the country or region in which you are currently travelling in your BMW; these are summarised by category.

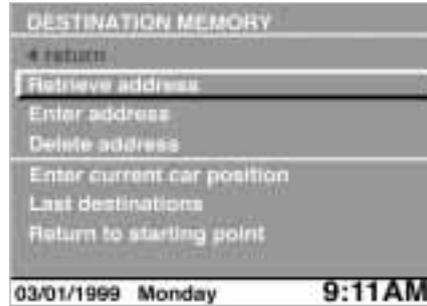
Select a destination from one of the lists, and transfer it to the destination guidance system.

- 1 Select "Delete destination" during destination input.
- 2 Select "Information".
- 3 Select "Info on destination".

Destination input in detail



- 4 Select the destination category, e.g. "AIRPORT".
- 5 Select "Index" and choose an entry from the alphabetical list. You can restrict the number of names displayed in the directory by first entering one or more letters of that name before selecting the "Index" function.
- 6 Mark the address of the destination located in this way and press the button to transfer it to the destination guidance system.



The address is stored in the destination list

To make destination inputs even easier, frequently-used destinations can be stored in a destination list (see page 47) and called up directly from there.

- 1 Select "Information".
- 2 Select "Destination memory".
- 3 Select "Retrieve address".
- 4 Select the desired address – it will be transferred to the destination guidance system.

Returning to a recently chosen destination

The last ten destinations chosen are stored.

- 1 Select "Information".
- 2 Select "Destination memory".
- 3 Select "Last destinations".
- 4 Select "Retrieve address", select the desired address and press the button to transfer it to the destination guidance system.

Deleting destination addresses

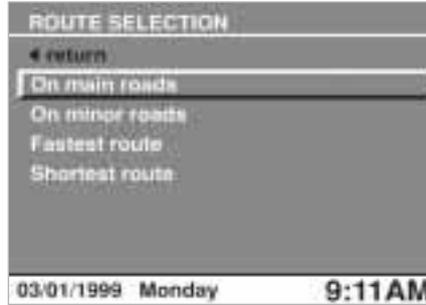
You can delete the ten stored destination addresses:

- 1 Select "Information".
- 2 Select "Destination memory".
- 3 Select "Last destinations".
- 4 Select "Delete address", select the address you want to delete, then press the button to delete it.

To delete all addresses, select "Delete address" and hold the button in for at least one second.

To return to the starting point

- 1 Select "Information".
- 2 Select "Destination memory".
- 3 Select "Return to starting point" – the address of the starting point is transferred to the destination guidance system.



The navigation system allows you to specify the type of route you would like to take. You can thus define the priorities according to which the route is determined:

- ▷ Fast roads: motorways and trunk roads are given priority.
- ▷ Minor roads: motorways are avoided as far as possible.
- ▷ Fastest route: this is a combination of the fastest and shortest routes.
- ▷ Shortest route: the most direct route, irrespective of how fast or slow progress will be.

You can change the type of route both when selecting a destination, and as often as desired while destination guidance is in operation – the system will always adapt to your wishes:

- 1 Select "Information".
- 2 Choose "Route selection".
- 3 Select the preferred type of route.

 The navigation system plans routes according to fixed principles. These depend on the road characteristics that are stored on the map CD. For this reason, the route proposed by the system will not necessarily be the one the driver expects from experience. ◀

Terminating destination guidance



Destination guidance is explained on [page 15](#).

Selecting "Dest. input" ends destination guidance and speech output.

Interrupting speech output

To ensure that news bulletins or traffic reports, for example, are not interrupted by spoken instructions, it is possible to suppress the speech output when the destination guidance system is active:

- ▷ Select "Instruction" and hold the button in for about one second.
The last route instruction is repeated if the button is pressed only briefly.

When "Instruction" is selected a further time, the speech output is switched on again.

40 Displaying route



Calling up route map

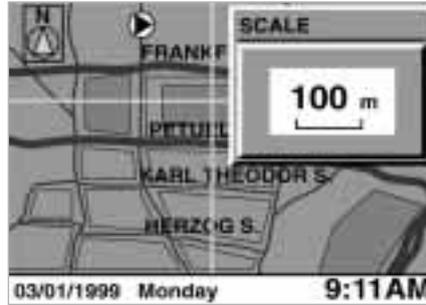
During destination guidance, the system can display a map showing the planned route.

To display the route map during destination guidance:



- 1 Turn until "Route map" is highlighted
- 2 Press to confirm the selection.

 The route map is automatically flashed up if the destination guidance takes you into a region which has not yet been digitised on the map CD inserted. ◀



Changing the scale



- 1 Turn and mark "Scale"; if the inputs are not made within four seconds, this process will have to be repeated.
- 2 Press to confirm this.
- 3 Turn until the desired scale is appears.
- 4 Press to input this value.

The visible section of the map changes after a few seconds.

Displaying route

Changing display direction

If the scale is < 1 km, you can choose whether to align the map with north at the top, or according to the direction of your chosen route.



- 1 Turn until "Map positioning" is highlighted.
- 2 Press to confirm this.
- 3 Select the desired direction.

Interrupting speech output

It is possible to interrupt speech output while the route map is being displayed:



- 1 Turn and select "Instruction".
- 2 Press and hold in for about one second.

The last route instruction is repeated if the button is pressed only briefly.

When "Instruction" is selected a further time, the speech output is switched on again.

Displaying the route list

You can call up a list of places and streets during destination guidance. This list is based on the route proposed by the navigation system.

The length of the individual streets or roads is also indicated.

To display the route list during destination guidance:



- 1 Turn until "Information" is highlighted.
- 2 Press to confirm your choice.
- 3 Turn until "Route list" is highlighted.
- 4 Press to call up the list.
- 5 Turn to browse through the list.

Selecting a new route

You can quit the navigation system during destination guidance and deviate from planned sections of the route. You can state the distance you wish to travel before returning to the original route.



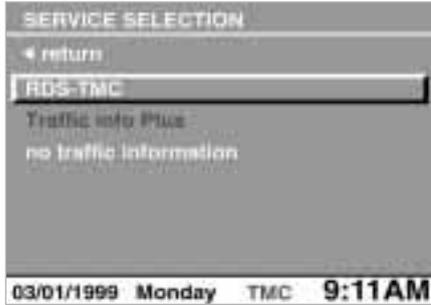
- 1 Turn and mark "New route".
- 2 Press to confirm this.
- 3 Select the desired distance.

The system will return you automatically to the new route at the next opportunity.



To help you avoid traffic jams and other road congestion, your navigation system displays traffic information from your car's radio. See Traffic information on page [42](#). ◀

42 Traffic information



Activating traffic information

You can receive TMC traffic information (see page 80) and have it displayed on the monitor screen during destination guidance.

To activate the TMC traffic information function:

- 1 Select "Traffic info" during destination input.
- 2 Select "RDS-TMC".
"TMC" appears in black in the bottom line of the monitor. The display changes to green as soon as a TMC channel is received.



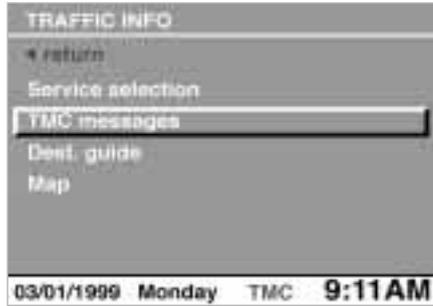
The radio can receive TMC stations while you are tuned in to another station. See diversity function, page 76. ◀

Advanced traffic information

If you have been registered for the emergency call and information services by BMW Assist*, you can receive "Traffic info plus" traffic information.

Your BMW Service or BMW Customer Information will be happy to advise you.

Traffic information

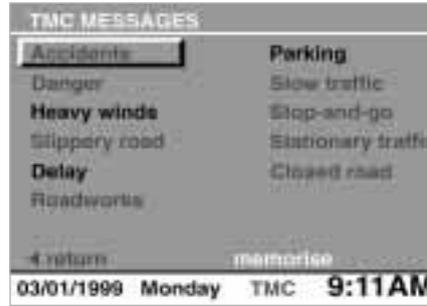


Selecting traffic information

The system distinguishes between different types of incidents. These are displayed in the route map as various symbols.

To determine the nature of the incident:

- 1 Select "Traffic info" during destination input.
- 2 Select "TMC messages".



- 3 Turn until the desired incident is highlighted; activated incidents appear in green.
- 4 Press to activate/deactivate your selection.
- 5 Select "memorise" to confirm your choice.
- 6 Select "Dest. guide" or "Map" to switch to destination guidance or the route map.

Traffic information in the route map

TMC traffic information is shown in the route map using the following symbols:

-  Accident
-  Closed road
-  Delay
-  Stationary traffic
-  No parking
-  Slippery road
-  Cross winds
-  Roadworks
-  Danger

44 Traffic information

The symbols appear

- ▷ in colour with a red border along the intended route;
- ▷ in black and white with a grey border if not on the proposed route.

Where a scale of 10 km or less is being used, additional detailed information such as the length, direction and severity of the congestion is shown by arrows along the route. For example:

-  Slow traffic
-  Stop-and-go traffic
-  Stationary traffic

 If the scale being used is greater than 10 km, a traffic incident is shown by an arrow pointing in the direction affected. ◀



Traffic information during destination guidance

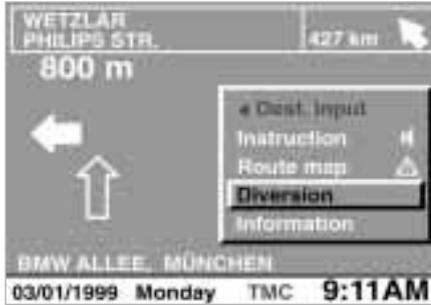
If the navigation system detects congestion or stationary traffic on the intended route, a warning symbol appears next to "Route map" in the destination guide.



The following information will appear in the route guide approx. 25 km (15 miles) before any stationary traffic:

- ▷ The cause of the congestion (see page 43).
- ▷ The distance until you reach the congestion.
- ▷ The length of the congestion.
- ▷ The distance to the last possible exit.

Traffic information



To avoid the congestion:

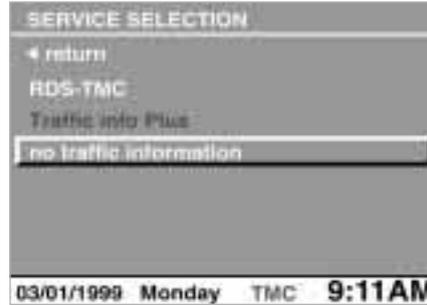


Turn and select "Diversion".

The navigation system calculates a new route and then returns to destination guide mode.



When you are approx. 5 km (3 miles) from the last possible exit or if you have selected another on-board monitor mode with the route guide mode still active, you are automatically prompted to take a diversion. ◀



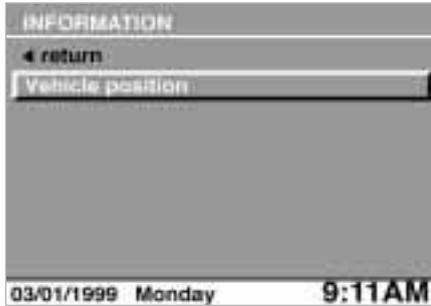
Deactivating traffic information

If you do not wish to receive TMC traffic information:

- 1 Select "Traffic info".
- 2 Select "Service selection".
- 3 Choose "no traffic information".

"TMC" disappears from the bottom line of the monitor.

46 Vehicle position



Vehicle position

You can call up the present location of your car, or display a road map showing your position.

To call up the car's current location:

- 1 Select "Information".



- 2 Turn until "Vehicle position" is highlighted.

- 3 Press to select the display.

For the road map, select:

- 1 "Information"

- 2 "Vehicle position"

- 3 "Street Map".

This function can also be useful if you have not input a destination. It enables you to monitor the route you have taken so far.

If the scale is < 1 km, you can choose whether to align the map with north at the top, or according to the direction of your chosen route (see page [41](#)).

Entering car's position

Correcting the car's current location is only recommended in exceptional circumstances.

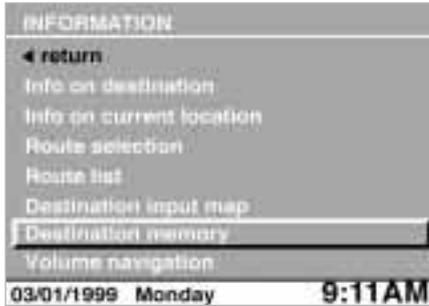
E.g. after a trip on Motorail, the GPS receiver needs a few minutes to find your new location. This search period can be cut short by entering the car's current location.

To enter the car's current position, select:

- 1 "Information"

- 2 "Vehicle position".

Enter the address for your current position in the same way as for entering a destination.



Address and destination

You can store up to 50 address and transfer them directly from the address book as navigation destinations (see page 37).

- 1 Select "Destination memory".
- 2 Select "Enter address".
- 3 Enter the data you have retrieved.
The name is not needed for destination guidance or for storing in the list. Due to restricted memory capacity, this is restricted to 10 characters.
- 4 When the full address has been entered, use "enter" to store it in the list.

Storing current location

You can transfer the car's current position directly to the destination list and add a name – provided that the car is on part of the street network recorded on the map.

- 1 Select "Destination memory".
- 2 Select "Enter current car position".
- 3 Add a name if required.
- 4 Select "enter".

Deleting addresses

- 1 Select "Destination memory".
- 2 Select "Delete address".
- 3 Select the required address and press the button to delete it.

To delete all addresses, select "Delete address" and hold the button in for at least one second.

48 Varying volume

You can raise or lower the volume of navigation information in relation to other audio sources.

- 1 Select "Information".
- 2 Select "Volume navigation".



- 3 Turn until the desired setting is obtained.
Press to store this setting.

You can also vary the volume at the rotary knob on the radio; see page 10.

Changing the map CD



If your navigation system indicates that you are about to leave the area covered by the map on the CD currently inserted, you should change the map CD in the navigation system.

Map CD contain road map covering one or more countries or regions; these maps are revised at regular intervals.

To change the map CD:

- 1 At the navigation computer in the rear left of the luggage compartment, press



as often as necessary until the CD is ejected.

- 2 Remove the CD and insert the new one.
- 3 Wait for eight seconds until the new CD starts.

Station selection [50](#)
Storing stations [52](#)
Regional stations [52](#)
Traffic report stations in
background [53](#)
Cassette [54](#)
CD play [55](#)
DSP sound system [57](#)
CD changer [58](#)
CD changer AI [59](#)
PI CD changer [60](#)

Initial overview

GPS navigation

Radio, cassette, CD, DSP Sound System

On-board computer, code,
auxiliary heater/ventilation

Television (TV)

Technical features in detail

Index

50 Station selection



The general overview (page 18) will have familiarized you with the radio's basic functions and operation. The information below relates to further facilities available on the radio.

 Switch off the "Audio+OBC" function if on-board monitor functions appear on the screen when the system is switched on, see page 27. ◀

The following instructions always apply:

Switch RDS on if

- ▷ you wish to have the station name displayed
- ▷ you want the radio to search automatically for the most powerful transmitter broadcasting your chosen station.

Switch TP on if

- ▷ you wish to hear traffic reports
- ▷ you also wish to have the traffic reports faded up when listening to a cassette or CD, using the navigation system or watching the TV.

Manual tuning

Search for a specific station either by name or by frequency.

Select the desired waveband:



Changes over as follows each time the button is pressed:

FM = FM/FMD (VHF)

AM = MW/SW/LW



1 Press to obtain the selection menu.



2 Turn until "m Manual selection" is highlighted.



3 Press until the desired station is reached.

Station selection

Next station



Press in the direction desired:
the next station will be searched for.

Scanning and selecting



Press to obtain the search menu.

1 Automatic search (SCAN)

Stations with a sufficiently strong signal are heard automatically for a short time, one after the other.



- ▷ Turn until "SCAN Station sample" is highlighted.
- ▷ Press to start the search.



- ▷ Press to continue hearing the sampled station.

2 Manual search

- || Station search for weaker stations
- | Station search for more powerful stations. If none is found, a second station search is made which includes the weaker stations.



- ▷ Turn until "|| Search sensitive" is highlighted.
- ▷ Press to confirm your selection.
- ▷ Turn until you hear the desired station.

If the inputs are not made within eight seconds, the procedure will have to be repeated.

Calling up stored station

First select the correct waveband, then the station using preset buttons 1 to 6.

This assumes that stations have already been stored.

Selecting TMC station

The radio tunes itself in the background to the TMC station with the strongest signal if you have activated RDS-TMC (Traffic Message Channel) in the navigation system, see page 42, 80.



The navigation system automatically selects the most suitable TMC station.

If you want to have a particular TP station in the background, you will have to deactivate TMC in the navigation system. ◀

52 Storing stations

You can store up to 24 stations:
6 FM and 18 AM stations.

The AM reception band is subdivided into individual MW, SW and LW preset ranges, to permit greater flexibility in storing stations.

- 1 Select the waveband.
- 2 Select the station.
- 3 Hold the desired preset button pressed in until the station is heard again after a brief interruption.

Alternatively:

in the FM, MW, SW or LW mode



- 1 Turn to select the number of the desired preset button.
- 2 Hold in until the station is heard again after a brief interruption.

If the preset button was already occupied by a stored station, the station last stored is faded up briefly. If you release the button immediately, the store process will be stopped and the previously stored station will not be lost – otherwise the preset will be assigned to the new station selected.

Regional stations

On FM (VHF), certain stations may broadcast regional stations either all day or at certain times of day only.

If you also wish to receive these stations, you must switch on the regional function:



- 1 Press.
- 
- 2 Turn until "Region On/Off" is highlighted.
 - 3 Press to activate the regional function.
"REG" appears on the screen.

If you have selected this function and the transmitter switches to a regional station, the radio will automatically search for these regional stations as alternatives.

Traffic report stations in background

You can select a station with traffic reports but keep it in the background, so that it interrupts the station to which you are listening when a traffic report is broadcast.

TP

1 Press and hold in until "Selected TP-Station" is displayed.



2 Turn until the desired traffic report station is highlighted.

3 Press to confirm your selection.

To cancel a background station:



1 Turn until "Delete TP- Stat" is highlighted.

2 Press to delete.



You may wish to switch off RDS-TMC in the navigation menu first. If you have activated RDS-TMC (Traffic Message Channel) in the navigation system (see page 42), the traffic report station selected by the navigation system is used, irrespective of the one you have tuned to. ◀

Reproduction quality

The best-quality reproduction is obtained if you

- ▷ use C60, C90 or special car tape cassettes
- ▷ remove cassettes from the car in extremely cold or hot weather (below - 10°C or above + 40°C)
- ▷ protect cassettes against exposure to direct sunlight or dirt and dust.

Listening to cassettes

Switch on the radio.

Push a cassette into the slot or, if there is already one in the slot, press



until "TAPE 1" is displayed.

Noise suppression

press until the best audio reproduction is obtained. The radio switches between Dolby off, Dolby B and Dolby C.

Changing tape track**Ejecting cassette****Search using buttons**

Music search:



Press the desired direction briefly. The next piece of music is only recognised after a period of silence at least four seconds long.

Fast forward/reverse:



Press the desired direction twice briefly.

To interrupt fast forward/reverse:



Press briefly in the desired direction.



Search via menu

The general overview disappears if no further button is pressed for about eight seconds.

Fast forward/reverse:



Press, "<< >> Fast forward / reverse" is highlighted.

To start/stop the search:



Music search:

The next piece of music is only recognised after a period of silence at least four seconds long.



Press as often as necessary or



turn until "< > Music search" is highlighted.

To start/stop the search:



Playing a CD

Switch on the radio.



Press as often as necessary until "CD" is displayed.

Select CD, for example:



The first CD from the magazine is played.

Stopping CD play



Press this button.

Search using buttons

Title search:

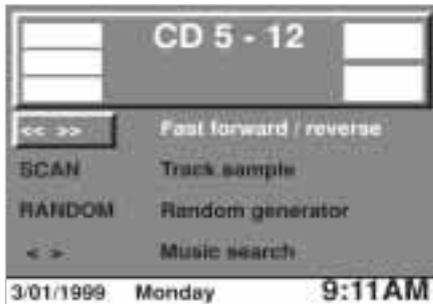


Press the desired direction button.

Fast forward/reverse:



Press in the desired direction and hold in.



Search via menu

The general overview disappears if no further button is pressed for about eight seconds.

Fast forward/reverse:



Press, "<< >> Fast forward / reverse" is highlighted.



Press in the desired direction and hold in.

The tracks can be heard, but the quality is distorted.

Scanning and selecting:



Press as often as necessary or



turn until "SCAN Track sample" is highlighted.

To start/stop the search:



Random play:

The music titles on all the CDs are played in random order (random play).



Press as often as necessary or



turn until "RANDOM Random generator" is highlighted.

To start random play:



To stop random play:

Select a different function or a different CD.

Title search:



Press as often as necessary or



turn until "< > Music search" is highlighted.

To start title search:



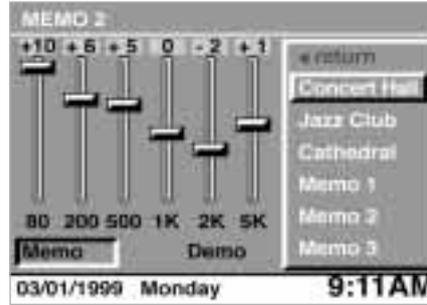
DSP sound system

Digital Sound Processing (DSP) assures an optimum level of audio reproduction quality by means of spatial simulation and also by providing equalizer functions.

It is only operational when the radio is switched on.

Switching on and off

- 1 Select "DSP" from the general menu.
- 2 Select "switch on" or "switch off".



Scanning and selecting

- 1 Select "Demo".
- 2 To accept one of the sample settings (concert hall, jazz club, cathedral):



press while the sample is being heard.

The remaining samples cannot be selected directly. If the demonstration is interrupted, the settings in use beforehand are retained.

Individual tone control preset

Tone control presets 1 to 3 can be adjusted individually:

- 1 Select the desired preset.
- 2 Select the aspect to be changed.
- 3 Make the adjustment and store it each time by pressing the button.

Concert hall, jazz club and cathedral are fixed preset settings and cannot be modified.

 If one of the sound-pattern controls (spatial acoustic, reverberation) is set to 0, the other reverts to 0 automatically. As soon as you move a control away from 0, the other returns to its previous setting. However, this is cancelled if you reset both controls to zero. ◀

Calling up tone control preset

- 1 Select "Memo".
- 2 Select tone control preset.

Installed position

The BMW 6 CD AI or PI CD changer is installed at the rear left in the luggage compartment.

The CD magazine holds up to 6 CDs.

Operating temperatures

 Only use the CD changer at temperatures between 0 °C and + 60 °C, otherwise it may malfunction. Even when switched off, the unit should not be exposed to temperatures outside a range of - 25 °C to + 85 °C. ◀

Atmospheric humidity

A high level of humidity inside the device may cause the laser beam focusing lens to fog over and prevent the CD from being played.

Precautions when using laser equipment

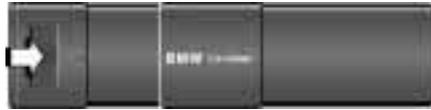
The BMW AI and PI 6 CD changers are classified as Class 1 laser products.

 Do not remove the cover from the housing.
Never run the device if its cover is damaged. This could expose you to radiation from the invisible laser beam. Repairs or maintenance work must only be carried out by qualified service experts. ◀

Handling CDs

A CD has a protective coating on both sides. In spite of this, take the following precautions:

- ▷ Always hold the CD at the outer edge, and avoid fingerprints or dust, scratches or moisture on the reflective side of the CD.
- ▷ Do not write on CDs or attach labels to them.



Removing the CD magazine

To open: push the flap to the right.



Press the button: the magazine will slide out and can then be removed.



Loading/unloading CD magazine

 When adding CDs to or removing them from the CD magazine, hold them only at the edge and do not touch the reflective, unprinted side of the CD. ◀

The CD compartments in the changer have the same numbers as the CD selector buttons on the radio.

Insert CDs into the changer's compartments with the label side uppermost.

To remove CDs, press the slide as illustrated: the CD will move out slightly and can then be removed.

You are recommended not to play CD singles with an adapter. The CDs or the adapter could jam in the CD changer.

Suitable magazines for CD singles can be obtained from shops.



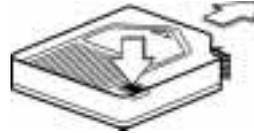
Inserting the CD magazine

- 1 Slide the flap to the right.
- 2 With the arrow pointing towards the CD changer, push the CD magazine fully in.
- 3 Close the flap.



Removing the CD magazine

- 1 Press the button: the CD changer opens automatically.
- 2 Press the button again: the magazine will slide out and can then be removed.



Loading/unloading CD magazine

-  When adding CDs to or removing them from the CD magazine, hold them only at the edge and do not touch the reflective sensing area. ◀

The CD compartments in the changer have the same numbers as the CD selector buttons on the radio.

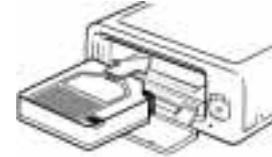
Press the release button and push out the CD compartment.

Insert CDs into the CD holders with the label side uppermost.

To empty, pull out a CD holder and take out the CD.

You are advised not to play CD singles with an adapter. The CDs or the adapter could jam in the CD changer.

Suitable magazines for CD singles can be obtained from shops.



Inserting the CD magazine

Press the button: the CD changer opens automatically.

- 1 With the arrow pointing towards the CD changer, push the CD magazine fully in.
- 2 Close the flap.

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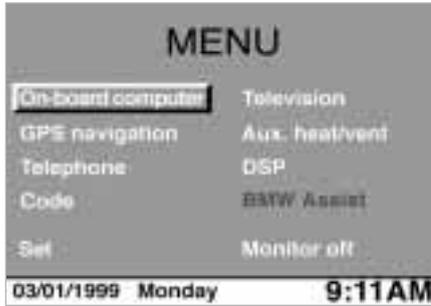
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The menu guidance principle is described briefly below. A detailed example may also be consulted on page 14.

To call up the general menu, select:



In other words:



- 1 Turn to select the on-board computer, its functions or a setting, or to enter a value.
- 2 Press to confirm the selection.

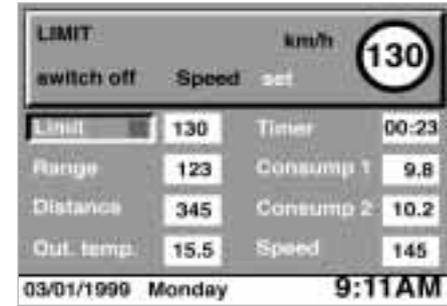
To exit from the computer, press the following button again:



Perform all inputs while the vehicle is stationary. The car's occupants and other road users could otherwise be put at risk. ◀

The on-board computer must have been selected at the general menu before you carry out any of the operating procedures described below.

Speed limit



Selecting, changing or switching off the speed limit

Selecting or changing:

- 1 Select "Limit".
- 2 Select "set".
- 3 Select the desired speed and press the button to confirm it.

Switching off or on again:

- 1 Select "Limit".
- 2 Select "switch off" or "switch on".

Storing actual speed as limit value

- 1 Select "Limit".
- 2 Select "Speed".

Range

RANGE			
	123 km		
Limit	130	Timer	00:23
Range	123	Consump 1	9.8
Distance	345	Consump 2	10.2
Out. temp.	15.5	Speed	145
03/01/1999 Monday			9:11 AM

The distance which the car should cover on the remaining fuel in the tank is displayed, on the assumption that the average fuel consumption will be maintained.

 Do not allow the range to fall below 10 km, to avoid the risk of damage to the engine or the catalytic converter. ◀

 The on-board computer only registers amounts in excess of four litres when you refuel. ◀

Distance and time of arrival

DISTANCE		ARRIVAL TIME	
345 km		12:03	
Limit	130	Timer	00:23
Range	123	Consump 1	9.8
Distance	345	Consump 2	10.2
Out. temp.	15.5	Speed	145
03/01/1999 Monday			9:11 AM

Distance

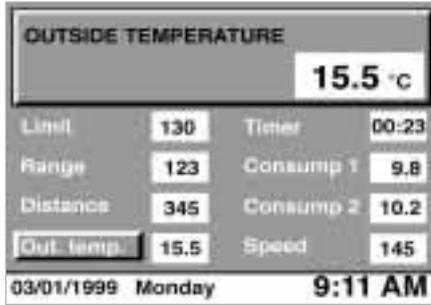
You then obtain a display showing the remaining distance to your destination. This presupposes that you have entered a destination in the GPS navigation before setting off on your journey (see page 14 or 32).

The distance to the destination by the planned route is transferred automatically.

Arrival time

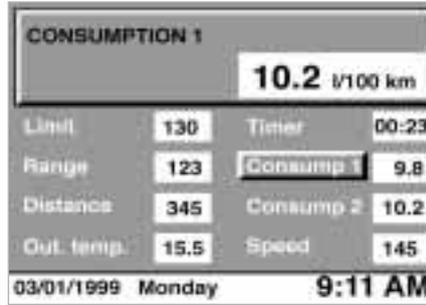
An estimated time of arrival will be displayed, as calculated by the navigation computer for the planned route and the selected route type, on the assumption that your average speed will be maintained.

This presupposes that you have entered a destination in the GPS navigation before setting off on your journey (see page 14 or 32) and have set the clock in the on-board monitor to the correct time (see page 27).



You can obtain an outside (ambient) temperature reading by selecting the "Out. temp" menu item.

 If the menu item "Arrival" is shown here instead, go into "Set" and select the on-board computer display "Out. temp". ◀



You can display the average fuel consumption for two routes, e.g. for the entire journey and for a section of it. The average fuel consumption is calculated for the period since the engine was last started.

To start the fuel consumption calculation, select the following with the ignition key in position 1 or beyond:

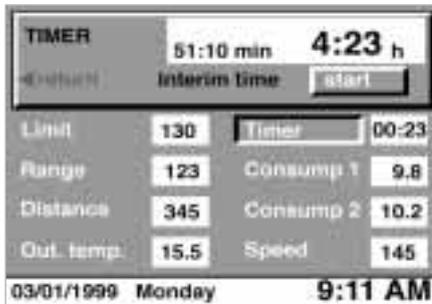
- ▷ "Consump 1"
- ▷ "Recalculate? Yes".

To calculate fuel consumption for the second distance, now select

- ▷ "Consump 2".

 To recalculate the average fuel consumption on the basis of the previous reading,

- ▷ "Recalculate? No". ◀



Starting and stopping:

- ▷ Select "Timer"
- ▷ Mark "start": the stopwatch will begin to run when the button is pressed, and then switches over to the "stop" function.
- ▷ To stop it, press the button again.

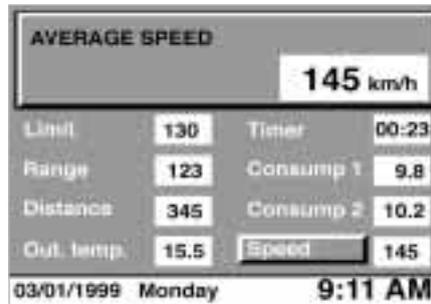
Taking an interim time reading:

- ▷ Mark "Interim time" the interim time appears on your display at the push of a button.

Continuing timing in the background:

- ▷ Use "return" to quit the menu while the stopwatch is running.

Any other desired function can then be called up, but the stopwatch continues to run.



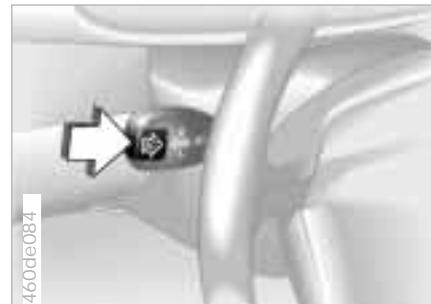
You can obtain a display of the car's average speed. The average speed is calculated for the period since the engine was last started.

To start the average speed calculation, select the following with the ignition key in position 1 or beyond:

- ▷ "Speed"
- ▷ "Recalculate? Yes".

 To recalculate the average speed on the basis of the previous reading, select

- ▷ "Recalculate? No".◀



The on-board computer information can be called up in the display on the instrument panel by using the button in the turn indicator lever, if the ignition key is in position 1 or beyond.

First store the functions you wish to display in this way:

- 1 Press the button on the turn indicator lever towards the steering column until "Remote control" appears on the screen.
- 2 Choose the desired functions from those against a green background.

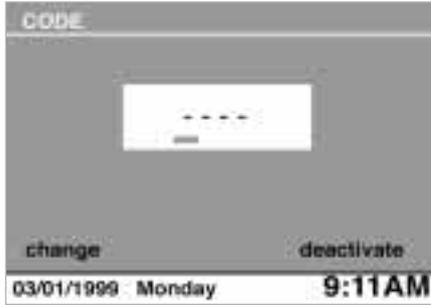
When you have chosen all the displays you need:

- 3 Select "memorise".

To call up the values:

- ▷ Press the turn indicator lever in briefly.

66 Code: prevents unauthorized persons from starting the engine



You can choose and enter a code without which the engine cannot be started. When the code has been activated, the driver is required to enter it with the ignition key in position 1.

Each time the code is activated, it is valid only until the next time the engine is started.

If the code is not available or has been forgotten, emergency deactivation is possible; see next page.

Selecting and activating code

- 1 Select "Code" in the general menu
To enter the code:



- 2 Turn until the desired number appears.
- 3 Press to confirm it.
- 4 Enter the three remaining figures in the same way.
- 5 To activate the code:
Turn the ignition key to 0.

To correct an input:

- 1 Select "change".
- 2 Repeat the input procedure from the beginning.

To interrupt input of the code:



Deactivating the code

When you are required to enter the code (in ignition key position 1):

- 1 Enter the code.
- 2 Select "deactivate".

To correct the input:

- ▷ Select "change" and repeat the code input.



After three incorrect code inputs or three attempts to start the engine without a code input, an alarm sounds for 30 seconds.

See also emergency deactivation. ◀

Emergency deactivation

Emergency deactivation can also be carried out before the three attempts to start the engine or three incorrect code inputs have been made and the alarm sounded.

- 1 Disconnect the battery and wait about 5 minutes before reconnecting it; see the car's Operating Instructions.
- 2 Turn the ignition key to position 1: A ten-minute countdown appears on the screen.

After the ten minutes have elapsed, start the engine.

68 Auxiliary fuel-burning heater/independent ventilation control



For your own safety please comply with the instructions regarding the auxiliary fuel-burning heater or independent ventilation control in the car's Operating Instructions. The instructions below refer only to operation by way of the on-board monitor.

Direct operation

1 For independent ventilation control, always leave the ignition key in position 1.

For the auxiliary heater, ignition key position 2 is also possible, in order to boost heating output when the engine is cold.

2 Select "Aux. heat/vent" in the general menu.

3 To switch on, select "Aux. heating" or "Aux. ventilation".

The green rectangle beside the selected function lights up and the red fan symbol in the screen surround flashes.

The auxiliary heater/ventilation control shuts down after 30 minutes.

To switch off beforehand:

▷ Repeat steps 2 and 3.

Alternatively:



Press until the red fan symbol on the screen surround goes out.

Pre-selection

You can set two switching-on times for the auxiliary heating/independent ventilation control.

1 Make sure that the clock is in operation and the ignition key is in position 1.

2 Select "Aux. heat/vent".

3 Select "Timer 1" (or, for the second time, "Timer 2").

4 Select "set".

5 Enter the desired time:

The green rectangle next to the selected time and the red fan symbol on the screen surround come on.

The heater/ventilation will only be switched on within the next 24 hours. After this, the time must be confirmed again.

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70 Selecting a station



The initial overview explained how convenient it is to store and call up TV station data automatically (see page 23). This detailed description also refers to menu-guided operation, with which you are now assumed to be familiar.

The following operating instructions apply after the TV menu has been called up.

 Perform all inputs while the vehicle is stationary. The car's occupants and other road users could otherwise be put at risk. ◀

Choosing from all stations that can be received

1 Select "Search"; the screen will display for example

Search CH 25

(CH followed by channel number)



2 Turn to start station search.

Station search is halted when a station with a sufficiently strong signal is located on a reception channel.

If this station has already been stored, the preset number is shown at the bottom left of the screen; otherwise you will be invited to store the station.

If reception quality deteriorates, a search procedure starts automatically. If the word "MUTE" appears on screen, this indicates that TV sound has been switched off ("muted") to prevent distorted sound reproduction from being heard in the car.

Selecting a specific station

If you wish to call up a specific station that has already been stored:

1 Select "Programme".



2 Turn to select the desired station.

Selecting a station

Sample view and selection

You can display all the stored stations briefly and then select one.

1 Select "Programme".



2 Press and hold in for about three seconds until a display such as the following appears:

Programme Scan



3 Press to continue viewing the displayed station.

Storing a station

Automatic

The 10 stations with the strongest reception signal are stored at presets 21-30.

▷ Select "Autostore", see page 23.

Individual

You can allocate stations to any preset you wish.

1 Select "Search"; the screen will display for example

Search CH 24



2 Turn to start station search. Station search is halted when a station is located.
3 Press and hold in for about three seconds until a display such as the following appears:

Programme 21



4 Turn until the desired preset between 1 and 30 is displayed.
5 Press to store.

72 **Adjusting the TV screen**

Contrast, brightness and colour

- 1 Select "Set" on the TV menu.
- 2 Select the desired control.
- 3 Turn the knob to vary the setting, then press it to retain the new setting.

Selecting TV format

The same TV format is not used in every country. However, you can adapt your TV receiver to accept all common TV formats (see page [77](#)).

- 1 Select "Set" on the TV menu.
- 2 Select "TV format".
- 3 Select the country in which you are currently travelling from the list displayed.



The general overview introduced you to the teletext viewing procedure. The two additional functions described below make it easier to obtain information.

Suppressing next page

If the information occupies more than one page, the signal to move on to the next page comes from the transmitter.

You can suppress it as follows:

- 1 Call up the teletext menu.
- 2 Select "Hold":
The page number is highlighted in red.

Enlarging text

- 1 Call up the teletext menu.
- 2 Highlight "Zoom".
- 3 To enlarge the text:



Press once: upper half of screen display
Press twice: lower half of screen display

- 4 To call up the complete screen display again:



Press a second time.

74 Connection for TV and video recorder for rear passengers in the BMW 7 Series



- 1 Video recorder connection
- 2 Monitor screen connection
- 3 Cigarette lighter
(used for power supply to monitor)
- 4 Station search button

Television

Connect up monitor screen for rear passengers to "AV out" socket and switch on



- ▷ Press briefly to change the station.
- ▷ Hold pressed for longer than 2 seconds to start a station search.

Rear-seat passengers can watch TV while the car is being driven.

Playing a video cassette

Connect the video recorder to socket "AV in" and change over to video operation:



Press for longer than 5 seconds.

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76 Diversity function

To ensure the best possible reception, this radio also has an RDS diversity function, i.e. it is equipped with two separate FM receivers. One of these supplies the selected station, the other searches continuously for other frequencies which are transmitting the same station, and for RDS stations which can be received.

If the reception quality of the selected station deteriorates, but no alternative frequency can be found, the frequency last selected appears on the display.

Many private radio stations transmit at very low power and therefore have only a limited range; furthermore, if they only operate on a single frequency, RDS and diversity will be unable to find a signal offering higher-quality reception.

Dolby

Dolby B and C are a noise suppression system for cassette replay.

High frequencies are raised during recording and suppressed during replay. As audio hiss consists mainly of high frequencies and occurs above all during replay, it is reduced in this way.

Dolby and the  symbol are registered trade marks of Dolby Laboratories Licensing Corporation.

 Only switch on when playing cassettes recorded using Dolby, as reproduction will otherwise sound dull. ◀

DSP

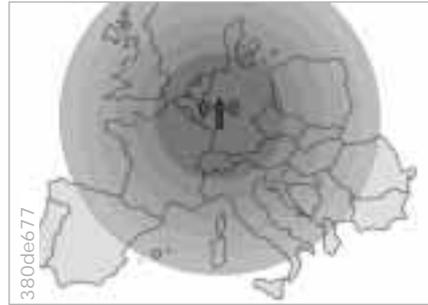
Digital Sound Processing

A sound system which fascinates the listener with its tremendously natural, precise sound reproduction. Satellite units containing sub-woofers, mid-range speakers and dome-pattern tweeters produce a spacious but subtle sound quality. A 6-band equalizer is provided for individual adjustment of the frequency range. It can also simulate the acoustics of three different enclosed spaces: a concert hall, a jazz club and a cathedral. Three control settings can be stored: tone, reverberation and equalizer.

 In order to take changing conditions during a car journey into account, the acoustic image is varied automatically to suit road speed and the ambient noise level. ◀

Television (TV)

This enables you to use it anywhere in the world with the multi-standard receiver (PAL, SECAM, NTSC).



The radio-controlled clock always shows the correct time and date. It corrects itself at regular intervals. The rear-window aerial picks up a radio signal from which the receiver determines the time and date. The radio signal is broadcast by a central transmitter. The time shown by the radio-controlled clock is first checked approx. 4 minutes into a journey. When the car is parked, the time is monitored once during the night, and adjusted if necessary. The radio-controlled clock therefore does not need adjusting manually for the changeover between summer and winter time.

Radio-controlled clock in the BMW 7 Series

GPS stands for Global Positioning System.

This is part of the navigation system, and uses satellite signals to determine your car's position. The distance between the car and at least three separate satellites is measured.

This data, received from the car's aerial and the GPS receiver, is supplied to the navigation system computer. In the computer it is combined with further information from the car's ABS sensors, the inertia sensor in the navigation computer and the digitised road map on the CD.

As a result, the navigation system is able to guide you efficiently and reliably to any map destination you select.

CD map

To be quite certain that your car's navigation system has the latest road network information at its disposal, always load it with the most recent CD version of the digitised road map. Map CDs, like conventional road maps, are periodically updated on the basis of observations and survey data.

BMW Service will gladly undertake to notify you when new versions are available.

Receiving RDS stations

RDS (Radio Data System) is a broadcasting and reception system in the FM range.

When you are tuned to a station which broadcasts RDS information, the station name appears in the display once the RDS signals have been processed.

The information is broadcast in the form of digital codes. At the moment, the following information is provided:

- ▷ Station identification PI
- ▷ Station service name PS
- ▷ Alternative frequencies AF
- ▷ Traffic Programme TP
(identification of traffic reports)
- ▷ Traffic announcement TA
- ▷ Enhanced Other Network EON
(enables you to receive traffic reports even if not listening to a station which broadcasts them, provided that this station is part of a group including one Traffic Programme station).

Monitor screen

Clean only with a cloth slightly moistened with water.



Use no chemical or other domestic cleaning agents, as these could damage the screen. ◀

Cassette

Special cleaning cassettes are available to remove dirt deposits from the replay head and tape drive elements.

CD

If necessary, wipe the reflective (signal) side of the CD with a suitable cleaning cloth (available from stores), working in straight lines from the inside outwards.



Do not use solvents or abrasive cleaning agents, nor the cleaning products or antistatic sprays intended for vinyl records. ◀

80 TMC traffic information

Traffic Message Channel

The RDS-TMC digital traffic message channel is a joint European development.

This system introduces an entirely new level of quality to traffic situation reports. They

- ▷ are always highly topical, thanks to automatic traffic data recording and data transmission
- ▷ can be selected according to specific criteria (e.g. congestion, road works)
- ▷ are regularly updated and transmitted without interrupting the radio station.

TP function

If the TP function has been activated, Traffic Programme transmitters are automatically chosen in a specific order:

- ▷ If you are listening to a station with traffic reports, these will be used.
- ▷ If your chosen station has no traffic reports, but belongs to a group of stations which does provide them, they will be taken from one of the related stations in this group.

If the group of stations from which you are receiving a station has no traffic report facility, the reports will be obtained from another station with the strongest signal.

Wordmatch principle

Your car's navigation system has this facility in order to make the input of names easier. It compares your destination inputs continuously with the data stored on the map CD, and reacts even if slight discrepancies are found. This has the following advantages for you:

- ▷ If the entry consists of several words, the name will be identified by the system regardless of the order of input.

Example:

Official rendering:
J.F. Kennedy Platz

Possible inputs:
Kennedy Square J.F.

or:
Square J.F. Kennedy.

- ▷ You can also input place-names in a form which differs from the official version, provided that the alternative entry is familiar in another country or language.

Example:

With the German map CD in use, instead of the German name "München" you can input the English version "Munich" or the Italian version "Monaco".

- ▷ When entering place-names or streets, the system completes the name automatically as soon as it has been identified beyond doubt.

Example:

If you want to input Lauchstädter Straße in Munich as your destination, the system will identify the street name as soon as you enter the "c", then automatically completes the name.

- ▷ The system only accepts name entries beginning with letters that are stored on the CD map. This makes it impossible for an incorrect name or address to be accepted.

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Cassette

What to do if ...

- ▷ the reproduction quality of cassettes deteriorates?
The tape may be dirty. For cleaning procedure, see page 79.
- ▷ the display shows:
"TAPE CLEAN?"
This message appears twice in succession when a cassette is inserted, after 50 hours of operation. It simplifies estimating the time intervals between cleaning operations. For cleaning procedure, see page 79.
- ▷ the display shows:
"TAPE ERROR?"
The tape in the cassette in the slot cannot be moved. Take the cassette out. If you are able to identify the problem and put it right, insert the cassette again and wind it fully forwards and then back. If the message is still displayed, the cassette in question should no longer be used.

CD

What to do if ...

- ▷ one of the following warnings is displayed?
"NO DISCS?"
The magazine is empty.
"NO DISC?"
There is no CD in the slot. On the AI changer this warning also appears if a CD is inserted upside-down.
"NO MAGAZINE?"
No magazine has been inserted.
"CD CHECK?"
The content of the CD is still being read in.
"HIGH TEMP?"
Operating temperature is too high. Replay commences again automatically when the correct operating temperature has been reached.

GPS navigation

What to do if ...

- ▷ you call up your car's current position, but the display is not accurate?
The system is currently calculating your position; please try again later.
- ▷ the GPS logo disappears from the screen?
Reception is interrupted; a building or similar obstruction may be the cause.
- ▷ an address from the destination list is not transferred to the route guidance programme?
The address is not on the map CD currently in use. Choose an address as close as possible to the original one, if necessary by the graphic input destination method.
- ▷ an address without a street is not transferred to the destination guidance programme?
There is no "centre of town" defined for the place in question. Enter any street, or a specific destination such as the station, for the town or city in question, then start destination guidance.

What to do if ...

GPS navigation

What to do if ...

- ▷ you wish to input a destination address, but the correct letter of the alphabet cannot be selected?
The address is not on the map CD currently in use. In this case the system will not offer you the non-existent letter to choose from. Choose an address as close as possible to the original one, if necessary by the graphic input destination method.
- ▷ you attempt to input a destination address by means of the cross-hairs on the input destination graphics map, but it is not transferred to the route guidance system?
The chosen scale is too large. Destinations are only transferred up to a scale of 1 km.
- ▷ directions cease to be given during destination guidance?
You are driving in an area for which full digital information is not yet available on the map CD. Instead of an arrow indicating a turn, you will see an arrow which indicates the general direction of your planned route;
or
you have deviated from the proposed route and the system requires a few seconds to calculate a new route.

- ▷ the route map is automatically called up during destination guidance?
You are currently in an area for which full digital information is not yet available on the map CD. No destination guidance is currently possible. However, as a rough guide the current position of your BMW will be shown on the map.
- ▷ the battery was disconnected?
It will take several minutes before the system is fully operational again.

Radio

What to do if ...

- ▷ the radio automatically begins a station search?
RDS is switched on but the strength of the station transmitting the selected station has dropped, and no alternative frequency is available. The radio searches for a transmitter broadcasting the same station at adequate signal strength. If none is found, it reverts to the frequency of the station previously received.

Teletext

What to do if ...

- ▷ the page you have input, and which is shown at the top left, does not appear and the figures continue to run indefinitely?
There is no information on the page in question: select and enter a different page
- ▷ you call up the "Teletext" function in the TV menu, but nothing happens? The station you have selected does not transmit teletext pages.

Television (TV)

What to do if ...

- ▷ no TV stations can be selected?
The national TV broadcasting format (PAL, SECAM, NTSC) has not been programmed correctly; see page 72. If you have reset this format, always move on to "Search" or "Autostore" afterwards, and never choose "Programme" first, or else the set will continue to look in vain for stations stored in a different format.
- ▷ you cannot receive a TV picture even when the car is standing still?
Make sure that the handbrake or parking brake is applied: in some countries, TV viewing is only permitted with the brake applied.
- ▷ you cannot receive TV sound while driving the car?
You are in a SECAM reception area, in which the sound as well as the picture is suppressed while the car is being driven.
- ▷ the picture quality is impaired?
The direct line of sight between the transmitter and receiver is currently obstructed by large buildings or topographical features.

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