

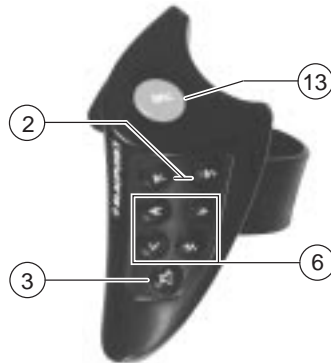
Radio / CD

Modena RD 148

Operating instructions




Bosch Gruppe



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Quick reference

① Switching on/off with the buttons:

Press one of the buttons illustrated here after you have inserted the KeyCard.

The unit will play at the pre-adjusted volume.



Switching on/off with the KeyCard:

The set is switched on or off by inserting or removing the KeyCard.

Note:

Be sure to read the information in the section on “KeyCard theft protection system”.

Switching on/off via the ignition:

If the equipment has been connected correspondingly, the set can also be turned on and off with the vehicle ignition.

After the ignition has been switched off, a double beep tone will remind you that you should remove the KeyCard before leaving your vehicle.

Switching on when the ignition is switched off:

To keep on operating the set when the ignition is switched off (KeyCard is inserted), proceed as follows:

Press **ON** after you hear the double beep tone.

The unit will turn on.

To prevent the battery from going dead, the system will turn off automatically after it has played for one hour.

② VOL+ / VOL-


Alters the volume.


Each time the set is switched on, it will play at the pre-adjusted volume (VOL FIX).

You can also change the VOL FIX setting (see the section on “DSC programming”).

③


Instantly mutes the volume.

Press the  button to mute the volume immediately. “MUTE” will appear in the display.

Cancel the function by pressing button  or **VOL+**.

If you press **VOL-**, the normal volume will be the same as the mute volume.

To programme the mute volume level, proceed as follows:

- Set the desired volume.
- Press  for 2 seconds until you hear a beep.

Now this volume level is stored as your mute volume.

Extra function

Press to store settings made in the DSC menu.

④ SC - Scan

Radio operation

Scan

Press **SC** briefly - “FM SCAN” will alternate with the abbreviated name of the scanned station in the display. The unit will scan all of the FM stations in the current reception range.

Preset Scan

Preset Scan cannot be started unless PTY has been switched off (“PTY” does not light up in the display). Press **SC** for approximately 2 seconds until you hear a beep.

“SCAN” will alternate with the abbreviated name of the scanned station in the display.

The unit will scan all of the stations stored on the preset buttons in the current reception range.

To stop Scan / Preset Scan:

Press **SC** or the search rocker switch once again.

PTY Scan

PTY Scan cannot be started unless PTY is switched on (“PTY” lights up in the display).

All of the stations for the programme type selected will be scanned briefly.

CD operation

CD Scan

Press **SC** briefly -

“CD-SCAN” will appear in the display. The unit will scan all CD titles.

To stop CD Scan:

Press **SC** once again.

5 LD - Loudness

When the car stereo is playing quietly, the Loudness function creates a more natural sound by boosting the low frequency range.

To switch Loudness on/off:
Press **LD** briefly.

Additional function: CLOCK

If you select the clock function the current time will appear permanently in the display.

To switch the display mode: Press **LD** for approximately 2 seconds.

The time will disappear from the display for approximately 8 seconds when you select a different function.

6 Rocker switch

Radio operation



▲/▼ Station search

▲ Up

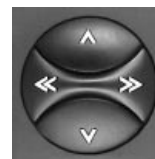
▼ Down

<</>> Up/Down in short intervals (for FM only when AF is off)

For FM only:

<</>> To scroll through the station networks when AF is on, NDR 1, 2, 3, 4, N-JOY, FFN, ANTENNE ...

CD operation



▲/▼ Track selection **▲** Up

▼ Down

Press **▼** once to go back to the beginning

of the current track.

>> **Fast advance**, audible (CUE).

Hold down **>>** as long as required.

<< **Fast reverse**, audible (REVIEW).

Hold down **<<** as long as required.

Extra rocker switch functions:

Further setting functions with

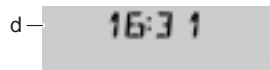
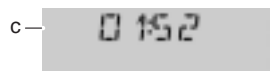
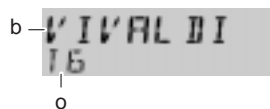
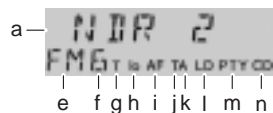
AUD (17)

DSC MODE (16)

PTY (15)

Requirement: The corresponding function must be activated.

7 Display



- a) NDR2 - Station name
- b) VIVALDI - CD name or
- c) 1 : 52 - CD time (playback time) and number (CD number)
- d) 16:31 - Time
- e) FM - Waveband
- f) 6 - Preset button (1-6)
- g) I, II, T - Memory bank I, II or Travelstore
- h) lo - Seek tuning sensitivity

- i) AF - Alternative frequency for RDS operation
- j) T - Traffic programme (a traffic information station is playing)
- k) A - Priority for traffic information stations
- l) LD - Loudness is activated
- m) PTY - Programme type function is activated
- n) CD - A CD is inserted in the unit
- o) T5 - Track no. 5 is playing

8 KeyCard theft protection system

To operate the set the KeyCard must be inserted first.



Insert KeyCard

When the KeyCard tongue is protruding out of the unit, insert the **KeyCard with the contact area facing up** into the slot in the middle of the area. If necessary, pull the KeyCard forward. Be sure to read the information in the section on “KeyCard theft protection system”.

Flashing KeyCard tongue

When the radio is turned off and the KeyCard removed, the KeyCard tongue can be programmed to flash for optical theft protection. For more information see the section on “DSC programming”.

9 BND

Switches between the memory levels/wavebands FMI, FMII, TS (Travelstore), M and L.

Additional Travelstore function

Storing the six stations with the strongest reception using **Travelstore**: Press **BND** until you hear a beep or “T--STORE” appears in the display.

10 AF

Alternative Frequency during RDS operation: When “AF” lights up in the display, the system will automatically search for a frequency offering better reception for the same RDS programme. **AF on/off**: Press **AF** briefly.

Regional function on/off:

Press the **AF** button for approximately 2 seconds until you hear a beep. "REG ON" or "REG OFF" will appear in the display (see the section on REG - regional programme).

11 **TA (Traffic Announcement)**

When "T" lights up in the display, the radio is currently playing a traffic information station.

When "A" appears in the display, the priority for traffic stations has been activated.

You can only tune into those stations which broadcast traffic announcements.

Priority on/off: Press **TA**.

12 **1, 2, 3, 4, 5, 6 - preset buttons**

Radio operation

On FM, you can store six stations for each of the memory banks I, II and "T". On MW/LW, you can store six stations each for each waveband.

To store a station - Press a preset button during radio operation and hold it down until the set resumes play after the muting and you hear a beep.

To recall a station - Select the desired waveband. On FM, adjust the corresponding memory bank and press the relevant preset button briefly.

Extra function for preset buttons

To store and recall a PTY programme type.

On FM, you can store and recall one programme type on/from each preset button when PTY is active ("PTY" lights up in the display).

CD operation

1/II - Pause

Switching Pause on/off: Press **1/II**. "CD PAUSE" will appear briefly in the display.

2/RPT - Repeat

Repeat track: Press **2/RPT**, "REPEAT" will appear briefly in the display and the track will repeat until **2/RPT** is pressed again. "RPT OFF" will then appear in the display.

3/MIX -

MIX plays the CD tracks in random order.

Switching MIX on/off: Press **3/MIX** briefly.

The mode activated will appear briefly in the display: "MIX CD" or "MIX OFF".

13 **SRC (Source)**

When a CD is inserted you can switch between the different audio sources radio and CD.

Eject

Hold down the button for approximately 2 seconds and the CD will eject.

14 **CD slot**

When you insert a disc into the slot with the label side facing up, it will be pulled in automatically and transported to the playback position. CD playback switches on automatically.

15 **PTY (Programme Type)**

In the PTY mode, the preset buttons become programme type buttons. With each preset you can select one programme type such as NEWS, SPORT, POP MUSIC, EDUCATE, etc. With the << >> rocker switch, it is possible to recall all of the PTY programme types as long as the PTY function has been activated ("PTY" will light up in the display).

- 16 **DSC (Direct Software Control)**
Use the DSC function to customise certain programmable, basic settings to suit your personal needs and preferences. See the section on “DSC programming” for more information.





- 17 **AUD**
Adjusts the treble and bass frequencies.

Different settings can be stored for FM, AM and CD.

To store the settings:

Select the operating mode.





Press **AUD** once and use the rocker switch to adjust the settings.

-  Treble +
-  Treble -
-  Bass -
-  Bass +

Select the next operating mode and adjust the settings as desired.

Setting the Balance (left/right) and the fader (front/rear).

Press **AUD** twice.

-  Fader front
-  Fader rear
-  Balance left
-  Balance right

The settings selected will appear in the display. The last setting will be stored automatically.

Switching AUD off:

Press the button once again briefly.

If no changes are made within 8 seconds, the AUD mode will switch off automatically.

Extra EQU ON/OFF function

Switching the equaliser on/off:

Press **AUD** for approximately 2 seconds. “EQU ON” or “EQU OFF” will appear briefly in the display.

Important notes

What you need to know

Before using your new car radio, please read through the following information carefully.

Traffic safety

As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times. Never use your car radio in a way that could distract you.

Please keep in mind that you travel a distance of 14 m per second at a speed of only 50 km/h.

Should the traffic situation become particularly demanding, we advise you not to use the radio.

Always make sure that you are still able to hear any warning signals coming from outside the vehicle, such as police or fire engine sirens, so that you can react accordingly.

Consequently, you should always select a moderate volume for playing your car radio while you are driving.

Installation

If you would like to install your new car stereo yourself or add other audio components to existing ones, then please read the enclosed instructions on installation and connection carefully.

In order to ensure that the set operates properly the positive power supply line must be connected via the ignition and the permanent +12 V lead.

Do not ground the loudspeaker outputs!

Telephone mute

If you have installed a mobile telephone in your vehicle, radio or CD playback can be muted automatically when you use the phone (telephone mute).

“PHONE” will then appear in the display.

If TA is active, traffic messages will always have priority. To end the announcement before it has finished press the **TA** button.

Accessories

Use Blaupunkt-approved accessories and spare parts only.

You can use the following Blaupunkt products with this car stereo:

Amplifier

All Blaupunkt amplifiers

Remote control

With the infrared remote control RC 06 you can control all of the important functions of your car hi-fi system from the steering wheel.



KeyCard theft protection system

This car radio includes one KeyCard as standard equipment, but it can also be operated with a second card.

If you have lost your KeyCard or if it was damaged, you can buy a new one from your specialised dealer.

If you use 2 KeyCards, the settings stored on the first card will be transferred to the second. However, you can store the following functions individually for each card:

Preset button assignments, bass, treble, balance and fader settings, Loudness, TA (traffic announcement volume), beep volume, LOW-EQ, HIGH-EQ.

In addition, the settings which are activated before you switch the radio off, such as the waveband, station, TA priority, AF, REG ON/OFF, SCANTIME, seek tuning sensitivity, VOL FIX and SHARX will also remain stored.

This ensures that you will find your basic settings re-adjusted automatically as soon as you have inserted your KeyCard.

Operating the unit

- Turn on the set.
With the KeyCard tongue protruding out of the unit, insert the **KeyCard** into the slot **with the contact area facing up** in the middle of the area.

The car radio is now ready for operation.

If a wrong KeyCard is inserted, then "CARD ERR" will appear in the display. In this case please do not make any further adjustments.

The system will switch off by itself after approximately 10 seconds.

If another card type is inserted (e.g. phone or credit card), the display will show "WRONG KC" for approximately 2 seconds.

Remove the wrong card and insert the correct KeyCard.

After the display indications "CARD ERR" or "WRONG KC":

- Press **ON** to turn on the set.

Removing the KeyCard

- Pull the KeyCard forward and remove it.

"Training" a second KeyCard/ Replacing a KeyCard

When the unit is operated with the first KeyCard, you can "train" a second one which can also be used with the set.

To "train" a second KeyCard:

- Insert the first KeyCard and turn on the set.
- Press the **DSC** button and select "LEARN KC" by pressing \wedge/\vee .
- Press \ll or \gg .

The display will switch to "CHANGE".

- Remove the first KeyCard and insert the new one while "CHANGE" still appears in the display.

After the display indication "READY" or "LEARN KC",

- press **DSC**.

Now you can also use the new KeyCard to operate your car stereo.

A maximum of 2 cards can be used for the set.

If you attempt to "train" a third one, the access authorisation for the KeyCard not used for the "training" process will be deleted automatically.

Displaying the radio pass data

Using the KeyCard supplied with your set you can have the radio pass data such as the model name, product number (7 6..) and serial number indicated on the display panel.

Please refer to the section on “DSC programming - READ KC”.

Short Additional Memory (S.A.M.)

The second KeyCard available from your specialised dealer allows you to have short information read out and moved through the display, such as the phone number of your car dealer or the emergency call number of your automobile association.

Please refer to the section on “DSC programming - READ KC”.

The freely selectable text with a maximum of 162 characters can be programmed by all dealers who have the required equipment available.

Turn On Message (T.O.M.)

The second KeyCard available from your specialised dealer also allows you to display a special turn-on message each time the radio is switched on.

The freely selectable text with a maximum of 48 characters can be programmed by all dealers who have the required equipment available.

The programmed text will be displayed each time you turn on your system with the second KeyCard.

Optical indication for extra theft protection

Flashing KeyCard tongue

When the vehicle is stationary and the KeyCard removed, the KeyCard tongue can be switched to flash for extra anti-theft security.

For this to operate properly, the positive power supply line and the permanent +12 V lead must be connected as described in the installation instructions.

Be sure that “LED ON” has been selected in the DSC mode.

If necessary, please refer to the section on “DSC programming - LED”.

Switching off the flashing light

If you would like to deactivate the flashing tongue in general, select “LED OFF” in the DSC menu.

Care of your KeyCard

To ensure that the KeyCard always functions properly it is important that the contacts remain free of any foreign particles. Avoid direct skin contact.

If necessary, clean the KeyCard contacts using a cotton swab dipped in rubbing alcohol.

Selecting the operating mode

Using the **SRC** (source) button you can switch between the radio and CD audio sources.

The CD mode is not available unless a disc is inserted.

To switch between the modes,

- press **SRC** briefly.

Radio operation with RDS (Radio Data System)

The **Radio Data System** will enhance your enjoyment when you listen to FM radio stations.

More and more radio stations have begun to broadcast RDS information along with their regular programming.

As soon as a programme has been identified, the station name including a regional identifier, if applicable, will appear in the display, for example, NDR1 NDS (regional programme in Lower Saxony, Germany).

When RDS is activated, the preset buttons become programme buttons. You now know exactly which programme you have tuned into, making it easy to find the desired station quickly.

But RDS offers you further advantages:

AF - Alternative frequency

The **AF** (Alternative Frequency) function makes sure that the radio always tunes into the strongest frequency of the currently selected programme automatically.

This function is activated when “AF” appears in the display.

In order to switch this function on or off,

- press the **AF** button briefly.

While searching for the strongest reception signal, the radio may switch to mute briefly.

If “SEARCH” appears in the display when the radio is switched on or one of the stored frequencies recalled, the unit is already automatically searching for an alternative frequency.

“SEARCH” will disappear from the display when the alternative frequency has been found or after the frequency band has run through completely.

If the reception quality of the selected programme deteriorates beyond a certain point:

- Tune into another station.

REG - regional programme

Certain radio programmes are split up at times into regional programmes offering local information. The 1st programme broadcast by NDR, for example, offers programmes with different contents in the northern German states of Schleswig-Holstein, Hamburg and Lower Saxony at certain times of the day.

If you are listening to a particular regional programme and wish to continue doing so,

- press the **AF** button for approximately 2 seconds.

“REG ON” will appear in the display.

If you leave the service area of the regional programme you are tuned into, or if you

would like to take advantage of full RDS service, switch to “REG OFF”.

- Press the **AF** button for approximately 2 seconds until “REG OFF” appears. “REG ON” or “REG OFF” will appear briefly in the display each time the radio is switched on.

Selecting a waveband

With this car radio you can select between the following wavebands:

FM 87.5 - 108 MHz
MW 531 - 1602 kHz
LW 153 - 279 kHz

- Select the desired waveband by pressing the **BND** button.

Note:

In the DSC menu it is possible to block MW or LW or both wavebands for station selection.

The advantage of doing this is that only the required wavebands can be selected and it is no longer necessary to press BND so often. If necessary, refer to the section on “DSC programming – AM ON or AM OFF”.

Station tuning

Automatic tuning \wedge/\vee

- Press \wedge/\vee ; the car radio will automatically search for the next station.

If you hold \wedge/\vee pressed up or down on the rocker switch, seek tuning will speed up in the upwards or downwards direction.



Seek tuning

 Up
 Down

\ll / \gg Up/down in short intervals
(for FM only, “AF” must be switched off)

Manual tuning with $\ll \gg$

You can also tune into a station manually.

Requirement:

AF and PTY must be switched off (i.e. the symbols do not light up in the display).

If necessary, deactivate these functions:

- Press **AF** or **PTY**.

Manual tuning:

- Press $\ll \gg$; the frequency will change in short intervals in the downwards or upwards direction.

If you hold $\ll \gg$ pressed to the left or the right on the rocker switch, the frequency scan will speed up.

Scrolling through the broadcasting networks (FM only)

You can use the $\ll \gg$ buttons to tune into stations in your reception area.

If it is possible to receive several programmes in the same broadcasting network, you can scroll through them in the forwards direction by pressing \gg , or backwards using the \ll button, e.g. NDR 1, 2, 3, 4, N-JOY, FFN, ANTENNE

For this to work properly you must have already tuned into the stations at least once and “AF” must be active (lights up in the display).

To do this, you can start the Travelstore seek operation:

- Press **BND** for 2 seconds; the system will start to run through the frequency band.

If “AF” is not lit up,

- press **AF**.

This fulfils the requirements for selecting stations with << >>.

Switching between the memory banks (FM)

You can switch between the memory banks I, II and T in order to store stations and recall them later.

The currently selected memory bank is indicated in the display.

- Press the **BND** button as many times as necessary until the desired memory bank lights up in the display.

Storing stations

On FM, you can store six stations on the preset buttons **1, 2, 3, 4, 5, 6** for each of the memory banks I, II and T.

On MW/LW, you can also store six stations each.

- Select the appropriate waveband by pressing **BND**.
- Tune in a station with the rocker switch (either automatically \wedge/\vee or manually << >>).

- Press the desired preset button until the radio resumes play after the muting (takes approximately 2 seconds, confirmed by a beep).

Now the station has been stored.

The display will indicate which preset button is currently activated.

Note:

Should you attempt to store a station which has already been stored before on another memory bank, the corresponding preset button and the memory bank will flash briefly in the display.

Automatically storing the strongest stations with Travelstore

You can automatically store the six most powerful FM stations in your current reception area sorted according to their signal strength. This function is particularly convenient on longer trips.

- Press the **BND** button for 2 seconds. “T-STORE” will appear in the display.

The six strongest FM stations will be automatically stored on the memory bank “T” (Travelstore). When this process has been completed, the radio will play the first station.

If desired, stations can also be stored manually in the Travelstore bank (see “Storing stations”).

Recalling stored stations

You can recall any stored station at the touch of a button.

- Select the waveband by pressing **BND**. For FM, also choose the corresponding memory bank by pressing the **BND** button as many times as necessary until the desired bank appears in the display.
- Press the corresponding preset button briefly to recall the station.

Scanning stored stations with Preset Scan

You can briefly scan through all of the stored stations on all wavebands in the selected FM memory bank.

Preset Scan cannot be started unless **PTY** has been switched off (“PTY” is not lit up in the display).

- If necessary, press **PTY**.

To start Preset Scan:

- Press **SC** for approximately 2 seconds.

All of the stored stations on the selected waveband will be scanned one after the other. In the display "SCAN" will alternate with the flashing station name or frequency.

To select a scanned station and switch off Preset Scan:

- Press **SC** briefly.

Scanning stations with Radio Scan

You can also scan through all of the stations in your reception area.

To start the Scan function:

- Press **SC** briefly.

The scanned frequency or the station name will start flashing in the display.

During the actual scanning process "AM-SCAN" or "FM-SCAN" will appear in the display.

To select a scanned station and switch off the Radio-Scan function:

- Press **SC** or the seek tuning rocker switch briefly.

If no station is selected, the scan function will switch off automatically after the frequency band has run through completely. The radio will tune into the station selected before the scan started.

Changing the scan time

The scan time can be selected from between 5 to a maximum of 30 seconds.

If you would like to alter the scan time, please refer to the section on "DSC programming - SCANTIME".

Selecting the seek tuning sensitivity

You can alter the automatic seek tuning sensitivity.

If "Io" is displayed, the radio will only pick up strong, local stations (low sensitivity).

If "Io" does not light up, the radio will also pick up weaker, more distant stations (high sensitivity).

If you would like to alter the sensitivity level please refer to the section on "DSC programming – LO-DX").

Switching from stereo to mono (FM)

Using the DSC menu you can switch from stereo to mono reception. If reception is poor, you may get better sound quality by switching to mono. When the radio is switched on, it automatically selects stereo reception.

As reception deteriorates, the radio will gradually switch to mono.

If you would like to switch to mono reception manually, please refer to the section on "DSC programming – STEREO/MONO".

The display will briefly indicate the mode selected.

Adjusting the bandwidth (FM)

In the DSC menu, you can use the SHARX function to adjust the bandwidth in the FM frequency range. This can be a great advantage when there is a large number of stations within your current reception range.

Interference with strong adjacent stations can be reduced to an absolute minimum if you activate "SHARX ON".

If necessary, refer to "DSC programming – SHARX".

PTY - Programme Type

PTY is an RDS service which an increasing number of more broadcasting stations have begun to offer. This feature allows you to select FM stations according to their programme type. After you have chosen the PTY of your preference, the corresponding stations can be selected either by seek tuning or using the scan function.

Switching PTY on/off

- Press **PTY**.

When the function is active, the programme type selected last will briefly appear in the display. "PTY" will appear permanently in the lower right corner of the display panel.

Programme type

Use << >> to have the last selected programme type displayed and to choose a new one.

You can select any one of the stored types with the preset buttons 1-6.

Requirement: PTY must be active.

You can use DSC to select Deutsch or English as the language (refer to the section on "DSC programming – PTY LANG").

The following list indicates all of the programme types which are available.

The letters printed in bold are identical to the abbreviation which appears briefly in the display.

NEWS
CURRENT AFFAIRS
INFORMATION
SPORT
EDUCATE
DRAMA
CULTURE

SCIENCE
VARIED
POP MUSIC
ROCK MUSIC
M.O.R. M (middle of the road music)
LIGHT M (light classical)
CLASSICS (serious classical)
OTHER M (other music)
WEATHER
FINANCE
CHILDREN'S PROGRAMMES
SOCIAL AFFAIRS
RELIGION
PHONE IN
TRAVEL
HOBBIES
JAZZ MUSIC
COUNTRY MUSIC
NATIONAL MUSIC
OLDIES MUSIC
FOLK MUSIC

Checking the programme type of the station

- Press **PTY** for approximately 2 seconds.

After the beep tone the display will show the programme type offered by the tuned in station.

If "NONE" appears in the display, the current station has no PTY code.

Displaying the selected programme type

- Press << or >>.

The programme type selected last will be displayed briefly.

Selecting a programme type

- Using the preset buttons

When PTY is switched on, you can use the preset buttons 1-6 to select the programme types stored at the factory.

- Press one of the presets 1-6.

The selected programme type will be displayed for 2 seconds.

If you would like to listen to a station with this PTY,

- press \wedge/\vee to start the seek tuning function.

If the radio is unable to find a station offering the selected programme type, the display will show "NO PTY" and a beep tone will be emitted. The radio will select the station which was tuned into before seek tuning was activated.

You can assign different programme types to each preset position. Please refer to the next section on "Storing programme types".

b) Using the << >> buttons on the rocker switch

When PTY is switched on, you can select a programme type using buttons << >>.

- Press << or >>; the programme type selected last will be displayed for 3 seconds.
- During this period press >> (forwards) or << (backwards) to select the desired type.
- Press << or >> as many times as required.

If you would like to listen to a station with the selected PTY,

- press \wedge/\vee to start the seek tuning function.

If the radio is unable to find a station offering the selected programme type, the display will show "NO PTY" and a beep tone will be emitted. The radio will select the station which was tuned into before seek tuning was activated.

Storing programme types

Each of the preset buttons 1-6 has been assigned one programme type at the factory.

If desired, you can also replace these with other available programme types.

To do so, make sure that "PTY" lights up in the display.

- If necessary, press the **PTY** button to switch on the function.
- Select a programme type using buttons << >> and
- hold down the desired preset button (1-6) until you hear a beep.

Now the selected programme type can be recalled by pressing this preset. "PTY" must appear in the display to indicate that the function is active.

Scanning stations with PTY SCAN

Requirement: "PTY" must appear in the display.

- Press the **SC** button.

All of the stations in your current reception area offering the selected programme type will be scanned.

To switch off PTY-SCAN:

- Press **SC** or the seek-tuning rocker switch once again.

PTY priority

Situation:

PTY is switched on and lights up in the display.

No station offering the selected programme type can be found currently in your reception range (with seek tuning or scan).

The set will switch back to the station previously tuned into.

As soon as it is possible to receive a programme in the broadcasting network with the PTY selected, the radio will switch over to the corresponding station for the duration of the programme.

Example: German broadcasting network NDR:

- Station playing: NDR3.
- "PTY" lights up in the display.
- Programme type "POP" selected.
- Seek tuning is started.
- No station with "PTY-POP" can be found.
- The display shows "NO PTY" and automatically switches back to NDR3.
- NDR2 airs a "PTY-POP" programme.

Traffic programme station reception with RDS-EON

- The radio will switch to the linked station NDR2 for the duration of the "POP" programme.

During CD operation, the set will also switch to the programme offering the selected PTY within the broadcasting network.

After the PTY programme has ended the system will switch back to the previous mode (radio or CD).

Note:

As already mentioned, these functions are only supported by a limited number of RDS stations at the present time.

The abbreviation "EON" stands for Enhanced Other Networks, which means that information is exchanged within a radio network.

Many FM radio stations provide their service area with traffic messages at regular intervals.

Along with their programmes, all traffic programme stations transmit a special carrier signal, which is decoded by your car radio. If this signal is identified, "T" will appear in the display (Traffic programme).

In addition to these, there are also stations which do not actually transmit traffic information themselves, but by using RDS-EON it is possible for them to forward the traffic messages broadcast by another traffic programme station in the same radio network.

If you want to have the priority for traffic announcements activated while listening to one of these stations (e.g. NDR3), "A" must appear on the display panel.

If a traffic announcement is broadcast, the radio will automatically switch to the linked traffic programme station (in this case, NDR2) for the duration of the message and return to the original programme (NDR3) afterwards.

Traffic announcement priority on/off

If the priority for traffic announcement programmes is activated, "A" will light up in the display.

To switch the priority on or off:

- Press the **TA** button.

If you press **TA** while a message is being broadcast, this message will be interrupted.

The unit will then switch back to the previous mode. The priority for other traffic messages remains active.

Please note that several buttons have no function while a traffic announcement is broadcast.

Warning beep

If you leave the reception area of the traffic programme station currently tuned into, you will hear a warning beep after approximately 30 seconds.

This alarm tone will also be emitted if you press a preset button for a station which does not send the traffic information signal.

Switching the warning beep off

- a) Tune into another station offering traffic information:
 - Press the rocker switch or
 - press a preset button which has a traffic programme station allocated to it.

Alternatively:

- b) Switch off the priority for traffic announcements:
 - Press **TA**.
"A" will disappear from the display.

Automatic seek tuning start (CD operation)

If you leave the reception area for the traffic programme station you have tuned into while you are listening to a CD, the system will automatically start searching for a new TA programme.

If no such station is found within approximately 30 seconds, a warning beep will sound every 30 seconds. To switch the warning beep off, proceed as described above.

Adjusting the volume for traffic announcements and the warning beep

Although this volume was preset at the factory, you can use the DSC function to alter the setting (see "DSC programming - TA VOL").

CD operation

This car stereo is equipped with a CD drive.

Note:

Use only standard circular CDs measuring 12 cm in diameter!

CDs measuring 8 cm in diameter or CDs in different shapes such as a butterfly or beer mug are not suitable for playback using this equipment.

This is very likely to result in the destruction of the CD or the CD drive.

We assume no liability for damage to the equipment caused by playing unsuitable CDs.

Switching to CD operation

Make sure that a disc is inserted, "CD" will appear on the display panel.

Press **△ SRC** to go through the available audio sources:

- Press as many times as required until the CD functions appear in the display (track number, name/playback time).

Inserting a CD

- Switch on the radio.
- Insert a CD with the label facing up. Never use force.

The CD will be transported to its playing position automatically. CD playback will start.

Removing a CD

- Press the **△ SRC** button for approximately one second. The CD will be ejected.

To protect the CD mechanism, do not impair or try to help the automatic insertion and ejection of the disc in any way.

If the CD is not removed from the drive within approximately 30 seconds, it will be reinserted automatically.

Selecting a track

After a CD has been inserted, the activated CD functions will appear on the display panel.



△/▽ Track selection **△** Up
▽ Down

Press **▽** once to go back to the beginning of the current track.

- **Fast advance**, audible (CUE).
Hold down **>>** as long as required.
- **Fast reverse**, audible (REVIEW).
Hold down **<<** as long as required.

If you press the rocker switch repeatedly, you will skip over the corresponding number of tracks.

The number displayed beside "T" (for track) indicates the number of the track which is currently playing.

Repeat track

You can repeat a track (endless). In CD mode,

- press **2/RPT**.
"REPEAT" appears briefly.

The track will repeat until **2/RPT** is pressed once again.

MIX playback

CD tracks can be played back in random order if desired. The MIX function has been activated, when "MIX CD" appears briefly in the display each time the audio source is switched to CD and following each track.

Switching the MIX function on or off,

- press **3/MIX** briefly.

The MIX function is off when “MIX OFF” appears in the display.

SCAN

Use this function to scan all of the CD tracks.

To start the Scan function:

- Press **SC** briefly, the display will indicate “CD-SCAN”.



The titles will be scanned one after the other in ascending order.

To stop the Scan function:

- Press **SC** once again briefly.

The track currently scanned will continue to play.

SCAN will also stop if you

- press one of the buttons marked **DSC**, **SRC**, , << >> or .

Selecting the display mode

You can select the desired display mode for CD operation:

- | | |
|--------|---|
| “NAME” | – The specified name, for example “MADONNA”, will be displayed. |
| “TIME” | – The elapsed playback time of the title is displayed in minutes, for example “2 : 32”. |

To switch the display mode:

It is possible to switch the display mode in the DSC menu (refer to the section on DSC programming – CD DISP”).

The “TIME” display mode was preset at the factory.

The display mode will appear briefly, followed by the corresponding values, e.g. “TIME”, “2 : 32”.

If you have selected “NAME” without having specified a name for the corresponding disc, the display will indicate the “TIME” mode.

Please read also the section on “Entering CD names”.

Entering CD names


You can enter names for up to 30 discs.

The specified name (e.g. VIVALDI) will appear in the display if you have selected “NAME” as the display mode in the DSC menu.

To start the entry:

- Press the **DSC** button and press  until “CD-NAME” appears on the display panel.
- Press .

The position for the first character will flash.

- Use the rocker switch  to select the first character.

The capital letters A to Z, the numbers 0 to 9 and special characters will be listed one after the other.

- Use the rocker switch << >> to move to the next position and select a character.

You can select up to eight characters.

Once you have completed the name as desired:

- Press  in order to store it.

To quit the naming mode,

- leave the DSC menu by pressing **DSC**.
- insert a new disc.

You can change any existing name by entering and storing a new one (overwriting).

Deleting CD names with DSC UPDATE

Use the DSC UPD (update) feature to delete a CD name.

You can delete the name stored for the CD in the CD drive with “CLR DISC”.

Use “CLR ALL” to delete the names for all of the CDs.

- Insert the CD for which you want to delete the name into the CD drive.

Clock

- Press **DSC**.
- Press **▲/▼** as many times as required until "CD UPD" appears on the display panel.
- Press **>>** to select "CLR DISC" if you want to delete the name of that CD,

or

Press **<<** to select "CLR ALL" to delete the names stored for all of the CDs.

- Press **⏏** for approximately 2 seconds. "UPDATE" will appear briefly in the display. The deletion process is complete.

To quit this function:

- Press **DSC**.

This car stereo is equipped with a built-in clock which automatically takes advantage either of RDS or the DCF 77 signal (control signal for atomic clocks, used in special cases), to ensure highly accurate time-keeping (hours, minutes).

For the clock to function properly with RDS, an RDS station with the CT function (CT – clock time) must be received.

The automatic correction of the time or just the hours using DCF 77 can be switched off.

Switching DCF 77 on/off:

- Press **DSC** for approximately 2 seconds.

If the display shows "DCF77 ON", DCF 77 is active.

If the display shows "NO DCF77", DCF 77 is inactive.

Setting the clock

a) automatically

The clock is set automatically when the radio is tuned into an RDS station which has the "CT" function (clock time).

If the RDS signal is not received for a week, the radio will attempt to use

DCF 77 to adjust the clock to the correct time the next time the radio is switched off.

Condition: DCF 77 is switched on.

"CLK SYNC" will appear in the display for 20 seconds and you will hear a melody (Big Ben) to indicate that the radio is still active and that the power antenna (if connected) is still extended.

If it is not possible to receive the DCF 77 signal, the radio will switch off after a few seconds.

b) manually with DSC-CLOCKSET

- Press **DSC** briefly, "CLOCKSET" will appear in the display.
- Press **<< >>** to set the hours/minutes. You can move to a different position by pressing **▲/▼**.
- After you have set the clock, press **⏏** briefly to store the new setting.

Displaying the clock

You can set the clock to permanent display in both the radio and CD modes.

If another function is selected, the clock display will disappear for approximately 8 seconds and the station selected, for example, will appear in the display.

To switch the display mode:

- Press **LD** for approximately 2 seconds.

Correcting the clock after the power has been disconnected

If the radio has been disconnected from its power source for a longer period of time, "0:00" will appear in the display when it is re-connected.

The time will be set automatically by RDS-CT, but can also be adjusted manually if desired.

You need only set the time manually if it is not possible to receive an RDS station with CT (clock time).

Deactivating the hour correction function

In the DSC menu it is possible to switch off the hour correction function with "CLK MAN/CLK AUTO". An automatic correction for minutes will continue to take place.

This is useful if you would like to display the time for a different time zone, for example.

If necessary,

- Press **DSC** briefly and
- Press **▲/▼** as often as required until "CLK MAN/CLK AUTO" appears in the display.

To deactivate the hour correction function press << >> to select "CLK MAN".

- Press << >> to set the hours/minutes.

⚠ Warning note

Danger of damaging the automatic power antenna in a car wash

If your vehicle is equipped with an automatic power antenna, it might still remain fully extended after you have turned the radio off in order to synchronise the time with DCF 77.

Before you drive into a car wash

- switch the radio off by pressing the **ON** button.
The power antenna will retract, if it doesn't, press **ON** again.

DCF 77 will remain inactive for as long as the radio is switched off.

Do not drive into the car wash unless the power antenna has retracted!

After you leave the car wash "DCF 77" will reactivate when you switch the radio on again.

Setting the equaliser

The acoustic characteristics of the car interior affect the quality of the sound reproduced in your vehicle to a much greater extent than the speakers.

Position, installation and the rear volumes of, for example, the door or rear window shelf all play an important role.

Even the sound produced by well selected and installed speakers can be affected negatively by resonance frequencies in the vehicle interior.

As a result, the bass sounds may be lost or reverberate, the mid-range tones sound too overpowering and music instruments or voices may be distorted or the total sound quality may be completely lifeless.

The overall sound quality can be greatly enhanced if certain frequencies are suppressed or boosted.

This car stereo is equipped with 2 parametric filters. The first filter "LOW EQ" can be set from 32 to 500 Hz, the second filter "HIGH EQ" from 630 to 10000 Hz. In this context, parametric means that it is possible to set the frequency and either boost or reduce it (+10 to -20 dB) individually for each of these filters.

These parametric filters can be adjusted to very exact settings even without the help of measuring instruments.

The individual steps you have to take to make these settings are described in the table.

Notes on making the settings

The following notes are intended as recommendations only. They do not necessarily reflect your own personal sound preferences.

We recommend that you use a music CD you are familiar with to make the settings.

The CD should include tracks with different instruments and vocals. Purely electronic music is not well suited to serve as a basis for making the settings because the original sounds cannot be determined.

Before you set the equaliser, set bass, treble, balance and fader to "0".

This setting is described in the Quick Reference under  **AUD**.

Now listen to the CD you have selected.




Evaluate the sound according to your own personal preferences.

Now refer to "Sound impression/problem" in the table and you will find suggestions to eliminate any problems under "What to do".

Make the settings for bass and the lower mid-range tones with the LOW EQ filter,

select HIGH EQ for treble and mid-range tones.

The "HIGH EQ" and "LOW EQ" filters can be set in the DSC menu:

- Press **DSC**.
- Press  as often as necessary until "HIGH EQ" or "LOW EQ" appears in the display.
- Press << or >> once and
- Set the level in the following table by pressing .
- Press << >> to switch the frequency range.
- Press  to store your settings.

You can switch the equaliser on and off by pressing **AUD** for approximately 2 seconds.

Now you can compare the sound produced by your car stereo with and without the equaliser.

Setting recommendations on the Internet

Refer to our home page on the Internet

<http://www.blaupunkt.de>

to find setting recommendations for new vehicles on the market.

Assistance in setting your equaliser

Start to make your settings in the mid-range/treble and end it with the bass range.

Frequency range	Sound impression / Problem	What to do	Notes
Bass 30 – 100 Hz	Bass reproduction too weak	Boost the basses with the “LOW EQ” filter Frequency: 50 to 100 Hz Level: +4 to +6 dB	Avoid distortion. Boost the level carefully if the speaker diameter is too small.
Lower mid-range 100 – 400 Hz	Unclear bass Playback reverberates Unpleasant pressure on the ears	Reduce the lower mid-range with the “LOW EQ” filter Frequency: 125 to 400 Hz Level: approx. -4 dB	The tone may become too lean and aggressive. Pay attention to the underlying tone of the music
Mid-range sound 400 – 4 000 Hz	Sound appears to be too much in the foreground, very aggressive, no stereo effect	Reduce the mid-range with “HIGH EQ” filter Frequency: 1 000 to 2 500 Hz Level: -4 to -6 dB	Playback should not be too quiet. Tone too powerless.
Treble 4 000 – 20 000 Hz	Lifeless reproduction Lack of transparency Instruments do not sparkle	Boost treble range with “HIGH EQ” filter Frequency: approx. 10 kHz Level: +2 to +4 dB	Avoid a piercing type of tone. Strong hissing sound unpleasant.

DSC programming


The car stereo has been equipped with DSC (Direct Software Control) to allow you to customise certain programmable, basic settings to suit your personal needs and preferences and then store them.

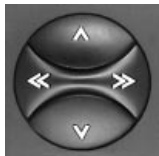
The basic settings for this audio equipment were made at the factory.



In the following you can find an overview of these settings, so that you can always reset to them if desired.



If you wish to alter any of the programming,

- press **DSC**.

Use the rocker switch and the  button to select and adjust the functions described in the following. The display will show you the setting you have selected.



-  Select function
-  Adjust/recall value

CLOCKSET To set the clock manually. Press << >> to set the hours/minutes. Move to the next position (flashing) by pressing . To store the setting selected, press  briefly. Also refer to the section on “CLOCK”.

VOL FIX Use this function to select the volume at which the radio is set when it is switched on. Adjust the desired volume level with << >>. When adjusted to “VOL 0”, the system will come on at the volume selected before it was switched off.

CD UPD Use this function to delete CD names during CD operation to make more storage capacity available for new discs. (See “Deleting CD names with DSC-UP-DATE”).

PTY LANG To select the language used to indicate the programme type: DEUTSCH or ENGLISH

READ KC To read out the KeyCard data. The card supplied with the radio is used to display the model name, type number (7 6..) and the serial number. With the extra card it is possible to display data entered by your specialised dealer. (See the section on “Short Additional Memory S.A.M.”). If you remove the KeyCard during the reading process, “READ KC” will appear on the display panel.

LEARN KC	To “train” a second Key-Card. Please read the information in the section on “KeyCard theft protection system - “Training” a second Key-Card”.	COLOUR	Gradually matches the radio illumination to the dash-board lighting. (green/orange)	TA VOL	To adjust the traffic announcement and warning beep volume from between 0 to 66. The message will then come through at this volume, if the standard volume is lower. If the standard volume is set higher than the TA VOL level, then the traffic report will be played at the standard volume.
SHARX	Switches the bandwidth in the FM frequency range. When there is a large number of stations within your current reception range, use << >> to switch to SHARX ON which will prevent most interference from adjacent radio stations. This function has been set to “SHARX ON” at the factory.	BEEP	Acknowledgement tone for all functions which require a button to be pressed for more than one second. The volume can be adjusted from between 0 to 9. (0 = off).	SCANTIME	Use this function to set the scan time for the radio or CD player from 5 to 30 seconds.
LED ON	Here you can choose between LED ON or LED OFF. With LED ON, the KeyCard tongue will flash for extra anti-theft protection when the unit has been switched off and the KeyCard removed.	LO-DX	To adjust the seek tuning sensitivity. “LO” stands for local reception. “DX” stands for distant reception. Select “LO 3” if you want to receive strong stations in the local area, select “DX 1” if you want to tune into weaker stations which are further away.	STEREO/MONO	Switch modes by pressing << >>. The mode selected will appear briefly in the display. The radio will begin with STEREO playback each time it is switched on.

AM ON/OFF It is possible to block out one or both of the AM wavebands (MW/LW). This means you will select only the wavebands you want when you press BND:
 AM ON – all wavebands are available
 MW OFF – LW, FM only
 LW OFF – MW, FM only
 AM OFF – FM only

LOUDNESS Loudness - When listening at a low level, the Loudness function creates a more natural sound by boosting the low frequency range.
 LOUD 1 - Low boost
 LOUD 6 - Max. boost

HIGH EQ Equaliser setting:
 To activate the frequencies and set the level for the upper frequency range. Refer to the detailed instructions in the section on "Equaliser setting".

LOW EQ Equaliser setting:
 To activate the frequencies and set the level for the lower frequency range. Refer to the detailed instructions in the section on "Equaliser setting".

CD NAME Only available during CD playback.
 Use this function to name your CDs. (See "Entering CD names").

CD DISP To select the NAME or TIME display mode. Refer to the detailed instructions in the section on "Select display mode".

CLK MAN Switches off the hour correction function.
 Read the information in the section on "Clock, Deactivating the hour correction function".

Overview of the DSC factory settings

CLOCKSET	-
VOL FIX	0
CD UPD	-
PTY LANG	ENGLISH
READ KC	-
LEARN KC	-
SHARX	SHARX ON
LED	ON
COLOUR	green
BEEP	4
LO / DX	DX 1
TA VOL	30
SCANTIME	10 sec.
STEREO	ON
AM ON / OFF	AM ON
LOUDNESS	3
HIGH EQ	0 dB/630 Hz
LOW EQ	0 dB/32 Hz
CD NAME	-
CD DISP	TIME
CLK AUTO / MAN	CLK AUTO

To quit the DSC programming mode and store the adjustment:

- Press **DSC**.

Specifications

Amplifier

Output power: 4 x 23 W RMS power
acc. to DIN 45324 at
14.4 V
4 x 35 W max. power

Tuner

Wavebands:

FM 87.5 – 108 MHz
MW 531 – 1602 kHz
LW 153 – 279 kHz

FM sensitivity: 0.9 μ V at 26 dB
signal-to-noise ratio

FM frequency response:
20 - 16 000 Hz

CD player

Frequency response:
20 - 20 000 Hz

Subject to modifications!

Blaupunkt telephone hotline

Address of the next service centre in your vicinity (only for Germany)

If you would like to know the address of the next Blaupunkt service centre of your area without having our service list at hand:

- Find out your area code.
- Then call the following chargeable phone number: **01 80 / 5 25 56 66**.
- Using the area code to be entered you will be automatically given the address and phone number of the next Blaupunkt service centre. You can also request this information by fax.

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