Operating instructions

Düsseldorf RCR 84
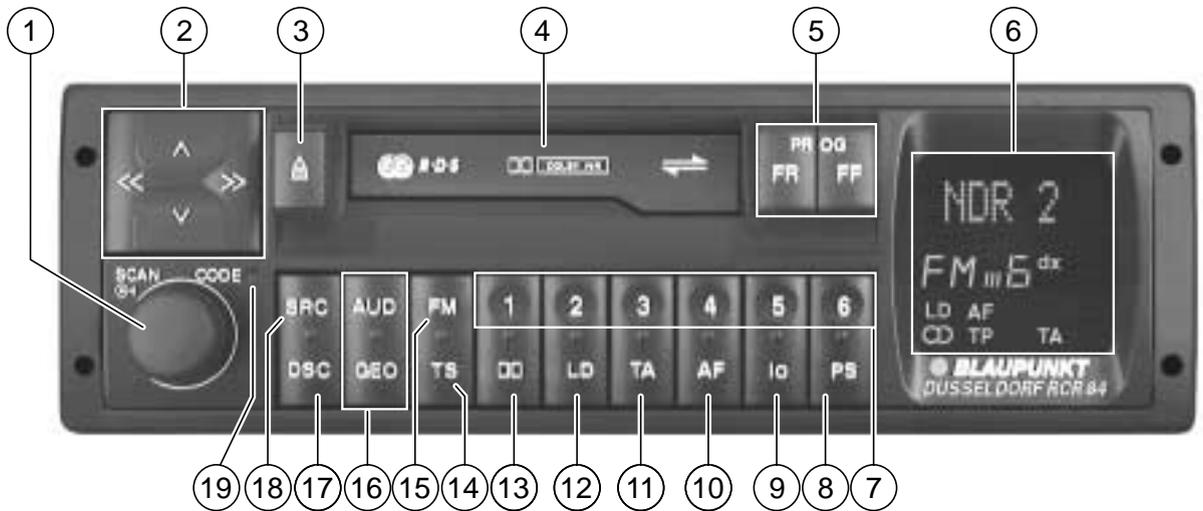
3

Table of Contents

Short description

① Amplifier

On ⌒↘ Off ↙⌒

Volume ↗↘
Scan: Press for 1 second

When "CODE" lights up in the display, read chapter "Anti-theft coding" first.

SCAN
Hold down for approximately 1 second to sample all stations to be received.

② Rocker switch

Seek tuning

up

down in short steps ≪ ≫ up in short steps

down

Extra functions:
DSC mode: Select and program DSC settings.
Coding: Enter code and confirm with ∧.

③ Eject tape
Press ▲ .

④ Cassette slot
Insert tape (side A or 1 facing up, the open side facing to the right).

⑤ Fast winding/Autoreverse

Changing the track
Press simultaneously
TR1-PLAY or TR2-PLAY in the display

Fast rewind
To stop:
press FF
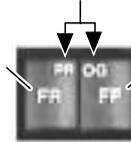
Fast forward
To stop:
press FR

⑥ Display
Radio:

Wave band

Station name/ frequency

Seek tuning sensitivity

Preset button
Memory bank
Priority of traffic announcements
Alternative frequency

Stereo

Loudness   Traffic program identifier

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Cassette:

Side 1 or 2

Dolby
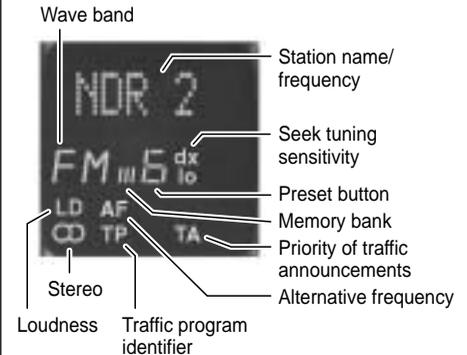
⑦ **1, 2, 3, 4, 5, 6 - preset buttons**
You can store 6 stations on each FM memory bank (I, II, III and T).
To store a station: Press button during radio operation and hold it down until the radio resumes play again.
To recall a station: Select the desired memory bank (press as many times as required). Then press the corresponding preset button.

Extra function:
Coding - Read chapter "Anti-theft coding" first.
Buttons **1, 2, 3, 4** - To enter the four-digit code.
Press each button repeatedly until the four-digit code given in the car radio passport is displayed.

⑧ **PS** (**P**reset **S**can)
To briefly sample all stored stations on the memory banks FM I-III or T.

⑨ **lo**
Seek tuning sensitivity
"lo" lit up in the display indicates normal seek tuning sensitivity (the system will pick up strong stations only).
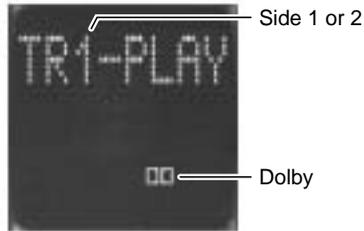"dx" lit up in the display indicates high seek tuning sensitivity (the system will also pick up weaker stations).
To change the seek tuning sensitivity: press **lo**.
For more information see chapter "DSC programming".

⑩ **AF** (**A**lternative **F**requency in **RDS** mode)
When "AF" is displayed in the RDS mode, the radio searches for a better frequency of the same program.
AF on/off: Press button.

Extra function:
REG ON/REG OFF - With REG ON, the radio only switches to a better alternative frequency, if it offers the same regional program (see "REG - Regional").

⑪ **TA** (**T**raffic **A**nnouncement)
If "TA" is on, the system will play traffic stations only.
TA on/off: press button.

⑫ **LD**
Loudness - boosts bass at low volume.
LD on/off: Press button.
For more information see chapter "DSC programming".

⑬ ⫿⫿ **– Dolby NR***
This set allows you to play cassettes recorded with Dolby NR noise reduction.
To switch Dolby NR on/off:
Press the button.
* Noise reduction system manufactured under license from Dolby Laboratories. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories.

⑭ **TS** (Travelstore)
To store the six most powerful stations automatically with Travelstore:
Store: Press **TS** until seek tuning starts (see display).
Recall: Press **TS**. Then briefly press one of the presets **1, 2, 3, 4, 5, 6**.

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(15) **FM**

To select one of the FM memory banks I, II, III.

To change the memory bank:
Press button until the desired memory bank is indicated on the display.

(16) **AUD/GEO**

AUD –
To adjust the treble and bass frequencies using the rocker switch.

Treble
+

Bass — ＜＜ ＞＞ + Bass

—
Treble
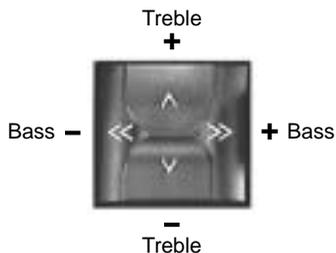
GEO –
To adjust the balance (left/right) and fader (front/rear).

Fader front

Balance
left

Balance
right

Fader rear
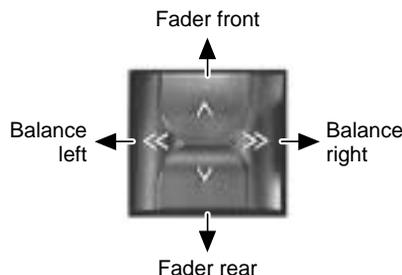
To modify a setting,
• press **AUD** or **GEO** first and then change the setting using the rocker switch.

The adjusted value is shown in the display.

The last setting will be stored automatically.

If the setting remains unchanged within 8 seconds, the display will shift back to the previous condition.

(17) **DSC** (**D**irect **S**oftware **C**ontrol)

Use the DSC function to adjust a number of programmable default settings to your personal needs. See "DSC programming" for more details.

(18) **SRC** (**S**ou**rc**e)

To select between the connected audio sources, e.g. cassette, radio.

(19) **Security LED (code-LED)**

Flashes as additional anti-theft protection when the car radio is turned off, provided you have activated this mode before under DSC - CODE-LED.

Important information

What you need to know!

Before starting to use your new car radio you should carefully read through the information on "Traffic safety" and "Anti-theft coding".

Traffic safety

Traffic safety has always priority. Use your car radio in such a manner that you are always able to cope with and react to the prevailing traffic situation at any given time. Remember, even at 50 km/h you are still moving at a speed of 14 m per seconds.

It is also very important that you are able to hear, and react to, acoustic warning signals around you, for example from the police or the firebrigade.

Therefore, adjust the volume reasonably.

Installation/connection

The code system can only be switched on and off, if the radio is connected to permanent power.

If you like to install your new car radio by yourself or add other audio components to the existing ones, then please read carefully the enclosed instructions on installation and connection. Do not connect the loudspeaker outputs to ground!

Only use the accessory and replacement parts approved by Blaupunkt.

Anti-theft coding

The car radio comes standard with the code system deactivated.

If the anti-theft coding system is on while the power supply to the unit is interrupted (e.g. theft, disconnecting the car battery), the set is electronically blocked. Then it may only be used again after the appropriate code number has been entered (see car radio passport).

Wrong code number entered

It should not be possible for thieves to ascertain the code number by trial-and-error. This is why the set will be blocked for a certain period of time, if an incorrect code number is entered. In this case, "- - - -" will appear in the display.

This waiting time is 10 seconds after the first three attempts, and 1 hour following subsequent attempts.

After 19 unsuccessful attempts, "OFF" will appear in the display and the set can no longer be restarted.

Note:

Keep you car radio passport with the code number in a safe place in order to avoid "unauthorized access" to your car radio.

If the power supply to the radio is interrupted while the code system is switched on, you need to know the right code number.

The radio will operate again as soon as you have entered the right code number.

If you lose your radio passport and have forgotten your code number, you will not be able to restart the set after the power supply has been interrupted. In this case, your radio can only be reset in our central customer service workshop or in one of our service agencies abroad.

Switching the code system on

Precondition:
The radio must be connected to permanent power.

In order to switch the code system on:

- Turn the radio off.
- Hold down the preset buttons **1** and **4** simultaneously.
- Turn the radio on.
  "CODE" briefly appears before the radio begins to operate.
- Release preset buttons **1** and **4**.

The code system is on.

"CODE" will be briefly displayed each time the radio is turned on.

Restart following interruption of power supply
(Code system switched on)

- Switch on the set.
  "CODE" will appear in the display.
- Briefly press preset button **1**, "0000" will appear in the display.
- Enter the code number given in the Blaupunkt car radio passport:
  Example: the code number is 2521.
  - Press preset button **1** twice, "2000" appears in the display.
  - Press preset button **2** five times, "2500" appears in the display.
  - Press preset button **3** twice, "2520" appears in the display.
  - Press preset button **4** once, "2521" appears in the display.
- To confirm the code number:
  Press the <u>upper part</u> of the rocker switch ∧.

Your car radio is now ready for operation.

If four dashes appear again in the display, you have entered a wrong code number. Now it is essential to enter the correct code after the waiting period has elapsed (CODE in the display).

If the radio is turned off before the waiting period has elapsed, then the waiting period restarts as soon as the radio is turned on again.

Switching the code system off

- Turn off the radio.
- Simultaneously press preset buttons **1** and **4** and hold them down.
- Turn the set on.
  "CODE" will appear in the display.
- Enter the code number given in the Blaupunkt car radio passport and confirm: See example "Restart following interruption …".

The code system is now deactivated.

Optical indication of theft protection

When the car is stationary, an optical security system in the form of a flashing LED can be activated to visualize that your radio is code-protected.
Depending on how you have hooked up your radio, three different LED modes are available, which can be programmed with the DSC function.
See "DSC programming" for more details.

Radio operation with RDS

An ever increasing number of FM radio stations broadcast additional information parallel to their normal program via the **R**adio **D**ata **S**ystem to make reception even more convenient.
As soon as radio programs can be identified, the station name and possibly the regional identifier are in the display, e.g. "NDR1 NDS" (local radio program in Lower Saxony, Germany).
With RDS, the preset buttons turn into program buttons. Now you know exactly to which program your set is tuned in, making it absolutely easy to find the desired station quickly. RDS even offers you further advantages:

AF - Alternative Frequency

The AF function assures that the strongest frequency of the selected program is tuned in automatically.
This function is on, if the display shows "AF". To switch AF on/off,

- press **AF** briefly.

During seek tuning to the strongest frequency, the radio operation is muted for a moment. If "SEARCH" appears in the display when turning the set on or when calling up a stored frequency, the set is automatically searching for an alternative frequency.

"SEARCH" goes out as soon as the system has found an alternative frequency or after the frequency band has been scanned completely.

Should the reception quality of the selected program become too bad,

• tune into another program.

REG - Regional

The AF function can also be used to activate and deactivate the regional function. At some time of the day, larger radio stations split up their main program into regional program versions offering local information.

If you want the radio to lock onto a regional program,

• hold down the **AF** button for about 2 seconds.
  The display will show "REG ON".

If you leave the service area of the regional program or if you wish to use the entire RDS service, switch to "REG OFF".

• Hold down the **AF** button for about 2 seconds until "REG OFF" is displayed.

If "REG ON" is activated, the display will show "REG ON" each time the radio is switched on.

Selecting a station

This set allows you to receive FM stations between 87.5 and 108 MHz.

Automatic seek tuning ∧/∨

• Press ∧/∨. The radio will automatically tune into the following station.

If you keep the upper or lower part of the rocker switch ∧/∨ depressed, seek tuning speeds up in upwards or downwards direction.

Seek tuning

up

down in short steps   up in short steps
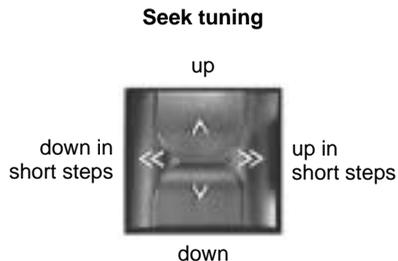
down

Manual seek tuning << >>

• Press << or >> to change the frequency in small steps in upwards/downwards direction.

Hold down the right or left part of the rocker switch to speed up this procedure.

Adjusting the seek tuning sensitivity

The set allows you to modify the seek tuning sensitivity.

If "lo" lights up, the radio will only pick up strong stations (low sensitivity).

If "dx" lights up, the radio will also pick up less powerful stations (higher sensitivity).

To change the seek tuning sensitivity,

• press **lo**.

On top of this, the sensitivity levels can be adjusted separately for lo and dx (see chapter "DSC programming").

Stereo - mono switch (FM)

You can switch to mono when the reception quality becomes poor:

• Press **lo** for approximately 2 seconds. During mono reception the stereo symbol ◯ on the display will go out.

Each time the car radio is switched on, the radio will be automatically set to stereo reception.

It will automatically shift to mono when the reception quality becomes poor.

Changing the memory bank (FM)

You can shift between the memory banks I, II, III and T to store and recall preset stations. The selected memory bank is indicated on the display.

- Press **FM** until the desired memory bank lights up on the display (press repeatedly if necessary).

Storing stations

Using the preset buttons **1, 2, 3, 4, 5, 6** you can store six stations on each FM memory bank (I, II, III, T).

- Select **FM** or **TS** and with FM also the desired memory bank.
- Use the rocker switch to tune to a station (either automatically or manually).
- Press the desired preset button and hold it down. The radio will be muted and resumes play after approximately 2 seconds. The system will also send out a beep tone.

Now the station is stored.

The activated preset button is indicated on the display.

Note:

If you tune into a station which has already been stored on another memory bank, the corresponding preset button and the memory bank will start flashing on the display for a short while.

Storing the strongest stations automatically with Travelstore

You can use the Travelstore memory bank to automatically store the six strongest FM stations sorted on the preset buttons according to their signal strength. This feature is especially useful when travelling, because it will always give you the most powerful stations at a fingertip as you pass through the various reception areas.

- Press **TS** for at least 2 seconds.

The radio will seek the most powerful FM stations and store them on the "T" memory bank (Travelstore). As soon as this procedure has finished, the first station will be played.

FM stations can also be stored manually on the Travelstore bank (see "Storing stations").

Recalling stored stations

You can recall any stored station by pressing the corresponding preset button.

- Select **FM** or **TS** and with FM also the desired memory bank.
  For this purpose, press **FM** until the desired memory bank is indicated on the display.
- Briefly press the corresponding preset button.

Sampling stored stations briefly with Preset Scan

Use the Preset Scan function to briefly sample all stations stored under FM or TS.

- Press **FM** or **TS**.
- Press **PS**,
  the set will then sample all the stored stations, with FM on all memory banks.

Free preset buttons will be skipped.
To stop this function:

- Press **PS** once again.
  The system will continue to play the currently sampled station.

Reception of traffic announcements with RDS-EON

Sampling stations briefly
with Radio Scan

This function allows you to sample all stations for approximately 8 seconds each.
To activate Scan:

- press knob ① for approximately 1 second.
  Then sampled frequency or the station name starts flashing in the display. During the actual searching process, "SCAN" is flashing.

To continue listening to a sampled station/switch Preset Scan off:

- briefly press knob ①.

If no station is selected during the search operation, the scan function will be automatically switched off after the entire frequency band has been passed through. The radio will then return to the initial station that was being played when the scan function was activated.

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

All traffic program stations transmit a special signal parallel to the radio program. Your car radio is able to identify such traffic program station by this TP signal. The display will indicate "TP" to confirm that a traffic program station is tuned in.

Other radio stations do not air traffic announcements by themselves, but offer the possibility to receive the traffic announcements of another radio station within the same radio network. During reception of such a station (e.g. NDR3) "TP" lights on the display as soon as the priority of traffic announcements is activated. Then the display has to light "TA".

If a traffic announcement is aired, your radio will switch to the traffic program station for the duration of the message and will switch back to the previous station after the end of the message.

Priority of traffic announcements ON/OFF

"TA" lights up in the display, if the priority of traffic announcements is on. To switch the function on and off,

- press the **TA** button.

If you press **TA** when a traffic announcement is played, the radio stops playing the message and switches to the previous mode. The priority of later traffic announcements remains on.

Warning beep

Whenever you leave the reception area of the traffic program station you are tuned to, you will hear a warning beep after approximately 30 seconds.

This warning beep will also be released, if you press a preset button on which a station without traffic program is stored.

Switching the warning beep off

a) Tune to another traffic program station:
  - Press the rocker switch or
  - press a preset button to recall a traffic program station.

or

b) Switch the traffic message priority off:
  - Press **TA**.
    "TA" goes out in the display.

Tape operation

Automatic seek tuning start
(During cassette operation)

If you leave the reception area of your traffic program station while you are playing a cassette, the car radio will automatically tune into another traffic program station.

If no traffic program station is found within approximately 30 seconds, the tape will be stopped and you will hear a warning beep. To switch the warning beep off, proceed as detailed above.

Adjusting the volume for traffic messages and warning beep

A default value is set ex factory for the volume of traffic announcements and the warning beep. You can change this default setting with the DSC function (see "DSC programming, ARI (TA)").

Inserting a tape

- Turn on the set.
- Insert a tape.

Eject tape   Insert tape with side A or 1 facing up, the open side facing to the right

The tape will be played in the direction used last.
If "TR1-PLAY" is displayed, this means that track 1 or A of the tape is played.

Ejecting a tape

- Press ⏏ .
  The cassette will be ejected.

Fast winding

Fast forward

- Press **FF** (fast forward).
  At the end of the tape, the set will switch to the other track and start playing it.
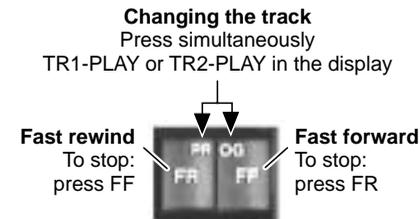
To stop fast forward:
- press **FR**.

Fast rewind

- Press **FR** (fast rewind).
  When the tape has been completely rewound, the set will start playing the same track again.

To stop fast rewind:
- press **FF**.

Changing the track
Press simultaneously
TR1-PLAY or TR2-PLAY in the display

Fast rewind   Fast forward
To stop: To stop:
press FF   press FR

Autoreverse

If, while a tape is playing, you wish to switch to the other track of that tape:

• press **FR** and **FF** simultaneously.

At the end of the tape, the set will automatically switch to the other track. The display will show "TR1-PLAY" for track 1 or A and "TR2-PLAY" for track 2 or B.

Note:

If there is too much tension on the tape during playback, the set may switch to the other track by itself. In this case check the condition of the tape. Sometimes it helps to rewind the cassette tape completely.

Dolby NR*

With this set you can play cassettes recorded with or without Dolby NR noise reduction. Cassettes recorded with Dolby NR* distinguish by their reduced background noise and the improved dynamic characteristics.
To switch Dolby on/off:

• press ⫴⫴. When Dolby is on, "⫴⫴" is indicated on the display.

* Noise reduction system manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Changing the audio source
with SRC

When you have inserted a cassette, you can change between tape or radio reproduction. To switch over,

• press the **SRC** button.

Care of your audio equipment

We recommend that you use only C-60/C-90 cassette tapes in your car radio. Protect your cassettes from dirt, dust and temperatures exceeding 50 °C. During cold weather, allow cold cassettes to warm up somewhat before playing them in order to avoid uneven tape transport. Operating problems and sound distortions may occur after approximately 100 hours of playing time and are caused by dust particles which adhere to the rubber roller and the audio head.
Use a cleaner cassette to remove normal dirt build-up. For tougher cases, use a cotton swab (Q-tip) soaked with alcohol. Never use any hard tools to clean your unit!
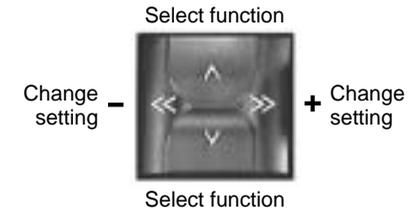
DSC programming

This car radio offers **d**irect **s**oftware **c**ontrol (DSC) to adjust a number of default settings to your personal needs and store them.
Listed below you will find an overview of such default settings.
To change a setting,

• press **DSC**.

Then use the rocker switch to select the functions described in the following and change the respective value. The current condition is indicated on the display.

Select function

Change setting **–**   **+** Change setting

Select function

LOCAL (lo)	Seek tuning sensitivity for local reception
	LOCAL 1 - high sensitivity LOCAL 3 - low sensitivity

DIS (dx)	Seek tuning sensitivity for distant reception
	DIS. 1 - high sensitivity
	DIS. 3 - low sensitivity
COLOUR	To match the display colour to the dashboard illumination. Select orange or green.
LOUD	Loudness - to boost the less perceptible, deeper tones for a more natural sound impression.
	LOUD 1 - low boost
	LOUD 6 - strong boost
BEEP	Acknowledgement tone for functions requiring a push of more than 2 seconds. Adjust the volume of that tone between 0 and 9 (0 = OFF).
ARI (TA)	To adjust the volume of traffic announcements between 1 - 9. The traffic announcement will then be reproduced with this volume (1 = low).

CODE-LED	To select the LED mode for optical theft protection.
	LED 1 - LED only flashes if the car is switched off via the ignition.
	LED 2 - LED always flashes if the car radio is switched off.
	LED 0 - No flashing.

To leave the DSC mode/store the setting,
• press **DSC**.

Survey of DSC default settings

LOCAL   : 1
DIS   : 1
COLOUR   : orange
LOUD   : 5
BEEP   : 5
ARI (TA)   : 5
CODE-LED   : 2

Appendix

Technical data

Amplifier
Output power: 4 x 19 W or 2 x 24 W RMS acc. to DIN 45324/3.1
4 x 20 W or 2 x 25 W music acc. to DIN 45324/3.2

FM
Sensitivity: 1.0 µV at 26 dB signal-to-noise ratio

Frequency
response: 35 - 15,000 Hz (-3 dB)

Cassette
Frequency
response: 32 - 16,000 Hz (-3 dB)

Subject to modifications!

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Blaupunkt-Werke GmbH
Bosch Gruppe