Operating instructions

Kiel RD 104
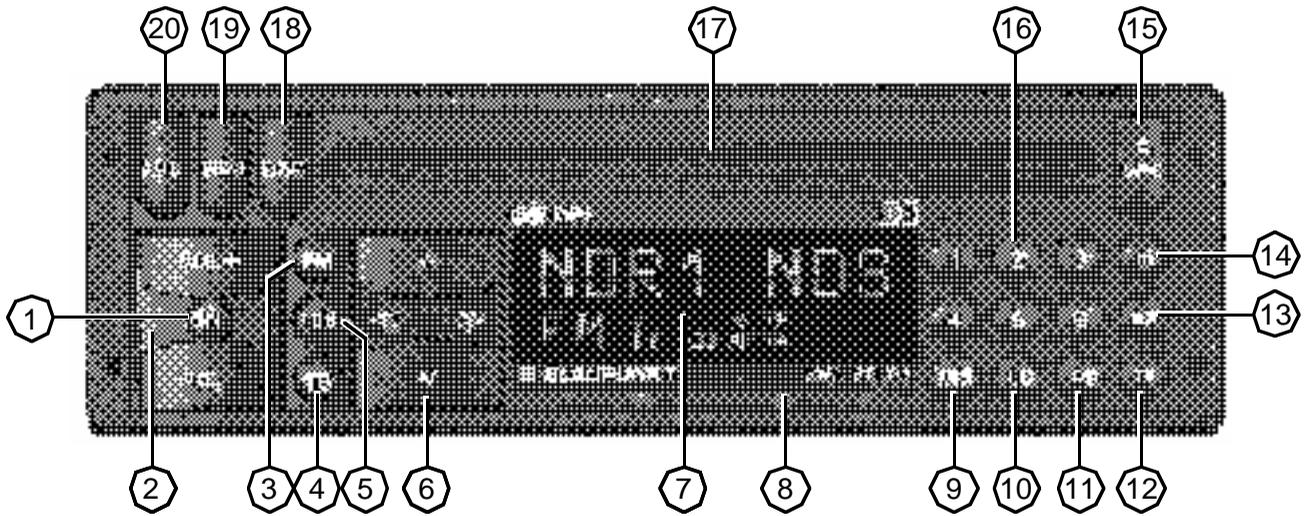
Contents

Short description

1 ON

Switching on:
Press **ON**, the set plays with the pre-adjusted volume. You may also change this setting (see chapter "DSC programming - VOL FIX").
When "CODE" lights up in the display, read chapter "Anti-theft coding" first.

Switching off:
Press **ON** for approximately 1 second. The set may also be turned off via the vehicle's ignition (provided that it was connected correspondingly).
To operate the set when the ignition is switched off, proceed as follows:
Press **ON** after the ignition was switched off. The set will be turned on.
To protect the battery, the system will automatically shut off after a playing time of one hour.

Volume **+**

Switching on/off

Volume **–**

2 VOL+ / VOL-

Adjust the desired volume with **VOL+ / VOL-**.
Each time the set is switched on, it will play with the pre-adjusted volume. You may also change this setting (see chapter "DSC programming - VOL FIX").

3 FM

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

4 TS (**T**rave**l**store)

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**.

5 -dB

Press the **-dB** button to instantly mute the audio source. The display will then show "MUTE". Return to normal volume by pressing either the **-dB** button once again or the **VOL+ / VOL-** button.
To program the mute volume, proceed as follows:
Adjust the desired volume with the **VOL+ / VOL-** button. Confirm your ent-

ry by pressing the **-dB** button for about 2 seconds (beep tone is released). This volume will then be stored as the mute volume.

6 Rocker switch

Station search

up

down in short intervals (when AF is off)

up in short intervals (when AF is off)
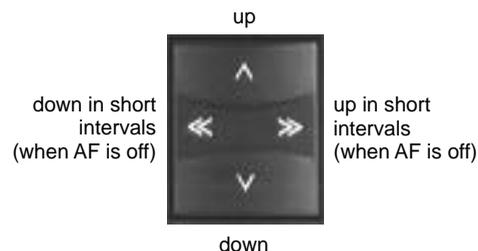
down

Extra functions:

Track ∧ / ∨:	To select the title (upwards/downwards)
CD ≪ / ≫ :	Cue/review
In the DSC mode:	Select function and program parameter.
In the AF mode:	("AF" in the display) Use <</>> to scroll through the programs of a radio

network, e.g. from NDR1 to NDR4 (North German broadcaster) or to display the entire AF memory.

(7) **Display**

Radio operation

Station name (NDR1 NDS) Memory bank (FM I)

CD operation

In the DSC mode you can choose between the CD PLAY or playback time indication.

(8) **LED warning light (code-LED)**
Flashes as additional anti-theft protection when the car radio is turned off (see chapter "DSC programming - LED ON").

(9) **MIX**
Press **MIX** - all CD titles will then be played at random.

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

(11) **PS** (**P**reset **S**can)
Radio function:
Press **PS** briefly - the system will briefly play all stations stored on the preset buttons.
Press **PS** longer than 2 seconds - the system will briefly play all FM stations to be received.
CD function:
To sample the CD titles.
To start or stop: Press **PS** briefly.

(12) **TA** (priority for **t**raffic **a**nnouncements)
When "TA" lights up in the display, the system will only play stations offering traffic information.
TA on/off: Press **TA**.

(13) **AF** (**a**lternative **f**requency in **RDS** operation)
When "AF" lights up in the display, the system will automatically seek a frequency offering better reception of the same RDS program.
AF on/off: Press **AF** briefly.

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").

(14) **lo**
To change the seek tuning sensitivity.
"lo" lights up in the display - normal seek tuning sensitivity (the system will pick up all powerful, nearby stations).
"lo" does not light up - high seek tuning sensitivity (the system will also pick up weaker stations).
To change the seek tuning sensitivity: Press **lo** briefly.

Extra function:
Switching from stereo to mono: Press **lo** longer than 2 seconds.

(15) **▲ / SRC** (**S**ou**rc**e)
Press the button briefly - to select between the audio sources, radio and CD.
Press the button longer than 1 second - to eject the CD.

⑯ **1, 2, 3, 4, 5, 6 - preset buttons**
You can store 6 stations on each FM memory bank (I, II, and "T").
To store a station: Press button during radio operation and hold down until the radio resumes play.
To recall a station: Select the desired memory bank by pressing **FM**. 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.

⑰ **CD slot**
Insert the CD with the label side showing to the top. The system will switch from radio to CD operation.

⑱ **DSC** (**D**irect **S**oftware **C**ontrol)
Use the DSC function to adapt a number of programmable basic settings to your personal needs.
For more information, read through chapter "DSC programming".

⑲ **GEO**
To adjust the balance (left/right) and fader (front/rear) using the rocker switch.

Fader front

Balance left — Balance right

Fader rear
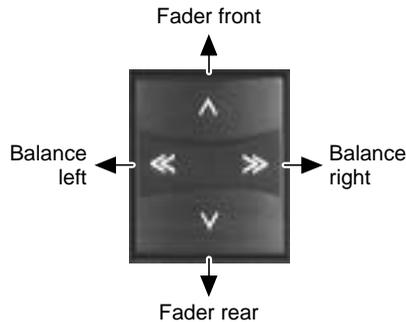
The last setting will be stored automatically.
If the setting remains unchanged within 8 seconds, the display will show the previous status.

⑳ **AUD**
To adjust the treble and bass frequencies using the rocker switch.

Treble
+

Bass **–** **+** Bass

–
Treble
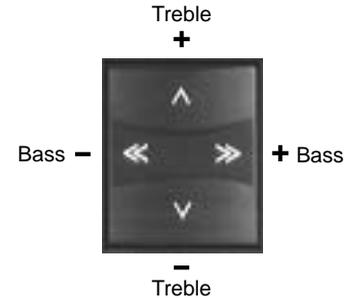
The last setting will be automatically stored.
If the setting remains unchanged within 8 seconds, the display will show the previous status.

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 upper part 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 parked, you can let the LED warning light flash in order to show that the set is theft-protected.
DSC allows you to adjust two different settings: LED ON or LED OFF.
For more information, please read through chapter "DSC programming - LED ON".

Radio operation with RDS (**R**adio **D**ata **S**ystem)

To make radio reception even more convenient, an ever increasing number of FM radio stations broadcast additional information in parallel with their normal program via the Radio Data System.

As soon as a radio program can be identified, the station name and possibly also a regional identifier will appear 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.

But RDS even offers you more advantages:

AF - alternative frequency

The AF function makes sure that the strongest frequency of the selected program is always tuned in automatically.

This function is activated if "AF" lights up in the display. You can then use the **<< / >>** rocker switch to scroll through the programs of a radio network, e.g. from NDR1 to NDR4 (North German broadcaster) or to display the entire AF memory.

To switch AF on/off:

• Press **AF** briefly.

During seek tuning for the frequency offering the best reception of the selected program, the radio is muted for a moment.

If "SEARCH" appears in the display when turning on the set or when calling up one of the stored frequencies, 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 times 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 station tuned in, or if you wish to use the entire RDS service again, 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.

up

down in short
intervals
(when AF is off)

up in short
intervals
(when AF is off)
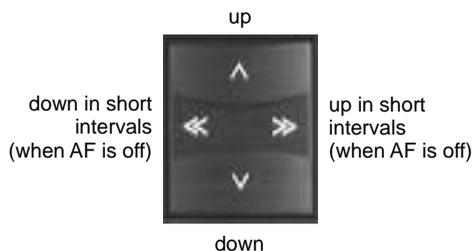
down

Manual seek tuning << / >>

(prerequisite: **AF** is switched off!)

• 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.
For this:

• Press **lo** briefly.

If "lo" is indicated, the radio will only pick up strong stations (low sensitivity).
If "lo" is not indicated, the radio will also pick up less powerful stations (higher sensitivity). The degree of sensitivity can be separately adjusted for both levels (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 ∞ in 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 switch to mono when the reception quality becomes poor.

Changing the memory bank (FM)

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

• Press **FM** until the desired memory bank lights up in 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, 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 in the display.

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 memory 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 switch off Preset Scan:

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

Sampling stations briefly with Radio Scan

Starting with the currently played station, you may let the system sample the following ones one after another.

To activate Scan:

• Press **PS** for about 2 seconds.
The sampled frequency or the station name starts flashing in the display. During the actual search process, "SCAN" is flashing.

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

• Briefly press **PS**.

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.

For more information, please also refer to chapter "DSC programming - SCANTIME".

Reception of traffic announcements with RDS-EON (**E**nhanced **O**ther **N**etworks)

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

All traffic program stations transmit a special telegram signal in addition to the radio program, which is recognised and decoded by the car radio. As soon as such a signal is received, the display shows "TP" (**T**raffic **P**rogram).

Other radio stations do not air traffic announcements by themselves, but offer the possibility to receive the traffic announcements of another station within the same radio network. In this case, "TP" will light up in the display as soon as the priority for traffic announcements is activated. The display must then show "TA".

If a traffic announcement comes in, your radio will automatically switch to the traffic program for the duration of the message and return to the previous station after the end of the message.

Priority of traffic announcements ON/OFF

If the priority of traffic announcements is activated, "TA" lights up in the display. To switch the function on/off:

• Press the **TA** button.

When pressing **TA** while a traffic announcement is being played, the radio stops playing the message and switches to the previous mode. The priority for all subsequent announcements remains active.

Warning beep

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

This warning beep will also be released when pressing a preset button without traffic program.

Switching the warning beep off

a) Tune to another traffic program station:

• Press the rocker switch ⑥, or

• press a preset button with a station offering traffic information.

Alternative:

b) Switch the priority of traffic announcements off:

• Press **TA**.

In the display, the "TA" indication goes out.

Automatic seek tuning start (CD operation)

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

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

Adjusting the traffic message and warning beep volume

The traffic message and warning beep volume is adjusted at the factory. However, you can change this default setting using the DSC function (see "DSC programming - TA LEVEL").

CD operation

Inserting the disc

- Switch on the set.
- Insert the CD (label side facing up) without applying force.

The disc is automatically pulled into the set to reach the playing position. CD reproduction starts.

Ejecting the disc

- Press the ▲ **/ SRC** button for more than 1 second. The CD is ejected.

To protect the CD mechanism, the automatic insertion and ejection of the disc must not be impaired in any way.

Selecting a track

As soon as the disc is inserted, the activated CD functions will be shown in the display. Use the ∧ or ∨ rocker switch to select the desired title.

- Press rocker switch ∧ to skip titles.
- Press rocker switch ∨ to repeat titles.

If the ∨ rocker switch is only pressed once, the system will go back to the beginning of the currently played title and repeat it, provided that this track has at least been played for 5 seconds.

The rocker switch is designed as a sequence switch, i.e. several tracks can be skipped at a time by pressing it repeatedly. The display shows "T" (track) and the corresponding number of the currently selected track.

Cue (Fast forward):

- Keep depressed the rocker switch **>>**.

Review (Fast backward):

- Keep depressed the rocker switch **<<**.

Sampling tracks automatically with CD SCAN

This function allows you to sample all CD tracks one after another.
To activate the scan function,

- press the **PS** button for about 2 seconds.
  The display shows "CD SCAN".
  The following tracks will be scanned one after another.

To continue listening to the sampled track,

- press the **PS** button once again.
  The set will then continue to play the track currently being sampled.

For more information, please also refer to chapter "DSC programming - SCANTIME".

The Mix function

When the Mix function is activated, the CD tracks will be played at random. The display will then show "MIX". To skip a title, press rocker switch ∧.
To switch Mix function on and off:

- Press the **MIX** button.

Changing the audio source with SRC

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

- press the ▲ **/ SRC** button.

DSC programming

This car radio offers **d**irect **s**oftware **c**ontrol (DSC) to adapt a number of default settings to your personal needs and to store them.
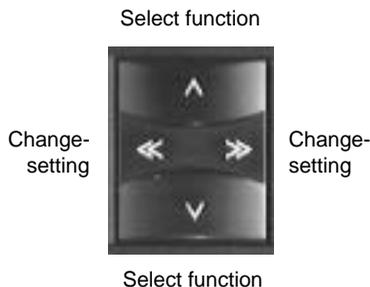In the following you will find an overview of all the default settings adjusted at the factory.
To change a programmed parameter,

• press **DSC**.

Then use the rocker switch to select and change the functions described below.
The display shows the the adjusted condition.

Select function

Change-setting   Change-setting

Select function

BEEP Achnowledgement tone for all functions where the respective button has to be held down for more than 2 seconds to activate the function.
Adjust volume between 0 and 9 (0 = OFF).

BRIGHT The display brightness can be adjusted between 1 and 15. You may set one day and one night adjustment. Brightness of night illumination:
Switch on the vehicle's lighting system and program the brightness value. For this, the illumination connector has to be hooked up to the electric system of the car.

COLOUR COLOUR green << >> red

CD DISP Use this function to display CD PLAY or TIME.

LED ON You can select between LED ON and LED OFF.

LOUDNESS When listening at a low level, the loudness function will create a more natural sound by emphasizing the low frequency range.
LOUD 1 - no boost/off
LOUD 6 - strong boost

SCANTIME Use this function to specify the scan time (in the CD and radio mode). Choose a value between 5 and 30 seconds.

S-DX 1 Use this function to adjust the seek tuning sensitivity for distant reception.
DX. 1 - high sensitivity
DX. 3 - low sensitivity

S-LO 1 Use this function to adjust the seek tuning sensitivity for local reception.
LO. 1 - high sensitivity
LO. 3 - low sensitivity

SPEECH Use this function for individual adjustment of the sound parameters, e.g. for speech programs.
SPEECH 0 - max. treble
SPEECH 4 - min. treble

27

Appendix

TA LEVEL   Use this function to adjust the volume of traffic announcements between 1 and 9. The announcement will be played with the specified volume.

VOL FIX   Use this function to adjust the initial volume when the set is switched on.

To quit the DSC mode and store the setting:
• Press **DSC**.

Survey of DSC default settings

BEEP	4
BRIGHT	15
COLOUR	RED
CD DISP	TIME
LED	ON
LOUDNESS	3
SCANTIME	10s
S-DX	2
S-LO	2
SPEECH	0
TA LEVEL	5
VOL FIX	20

Technical data

Amplifier
Output power: 4 x 20 W RMS according to DIN 45324
4 x 25 W music according to DIN 45324

FM
Sensitivity: 0.9 µV at 26 dB S/N ratio
Frequency response: 30 - 16,000 Hz (-3 dB)

CD
Frequency response: 20 - 20,000 Hz (-1 dB)

Subject to modifications!