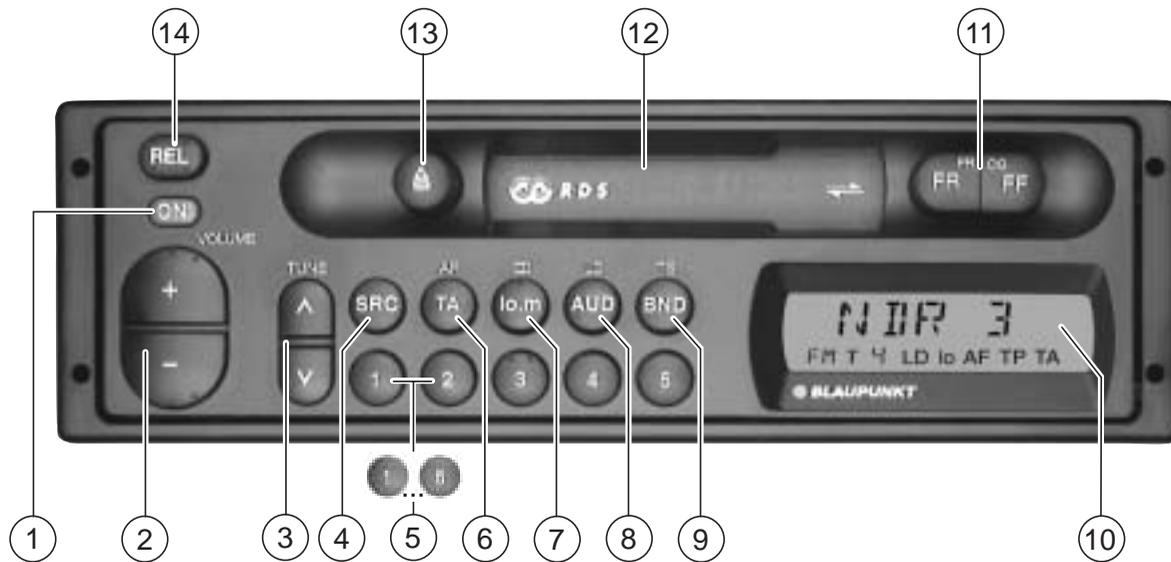


Radio / Cassette

# Caracas RCR 27 Rio RCR 87

Operating instructions





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## Quick reference

### ① Switching on/off with the ON button



Press **ON** for more than 1 second. The unit will play at the volume selected last.

#### Switching on/off via the ignition:

If connected accordingly, the set can also be turned on and off with the vehicle ignition.

#### Extra function of ON button

You can instantly turn down the volume by pressing **ON** briefly. "MUTE" will appear. The volume will be set to "0". The function is cancelled by pressing **ON** or **+** briefly.

### ② +/- (VOLUME)

To alter the volume. Each time you switch the unit on, it will play at the volume selected last.



### ③ ^/∇ Tune



#### ^/∇ Automatic tuning

∧ Up  
∇ Down  
if "m" does not light up in the display

#### Manual tuning

∧/∇ Up/down in short intervals, if "m" lights up in the display. "m" stands for manual and can be turned on and off by pressing **lo.m**. Press button several times if required.

### ④ SRC (audio source)

You can select radio or tape mode, if a cassette is inserted.

### ⑤ 1, 2, 3, 4, 5 - preset buttons

You can store five stations on each of the memory banks FMI, II, T and M, L (medium- and long-wave).

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

**To recall a station:** Select the desired memory bank and press the relevant preset button briefly.

### ⑥ TA/AF

**TA** - priority for traffic announcements  
If "TA" lights up in the display, the system will play traffic stations only. Priority on/off: Press **TA/AF** briefly.

**AF** - alternative frequency during RDS operation:

If "AF" lights up in the display, the system will automatically seek a frequency offering better reception for the same RDS programme. AF on/off: Press **TA/AF** for about 1 second.

#### Extra function

To adjust the volume of traffic messages:

In radio or tape mode, press **+ / -** to adjust the desired volume for traffic messages.

Press **TA/AF** for 3 seconds until "TA VOL" appears in the display.

⑦ **lo.m**

**lo** - to select the seek tuning sensitivity level

**m** - manual tuning

“lo” is displayed - normal seek tuning sensitivity

“lo” is off - high seek tuning sensitivity

“m” is displayed - manual tuning with



Press **lo.m** several times if required to select the desired function.

⑧ **AUD/LD**

**AUD** – audio

To adjust the treble, bass, balance and fader.

Adjusting the fader is not possible with the Caracas RCR 27.

If the display shows “TREB” or

“BASS”, you can adjust the playback of the treble and bass frequencies using the rocker switch.

If “BAL” or “FAD” is displayed, you can set the balance (left/right) and fader (front/rear).

Press **AUD/LD** as many times as required and make the setting using the rocker switch.



The last setting will be stored automatically.

To switch off AUD: Press button once again.

If you do not change the setting within 8 seconds, the display will switch back to the previous condition.

**LD** - Loudness

When the system is played at a low volume level, the Loudness function creates a more natural sound by boosting the low frequency range.

**Loudness on/off:**

Press **AUD/LD** for approximately 1 sec.

“LD” lights up in the display, if the Loudness function is switched on.

⑨ **BND/TS**

**BND** - To select the wavebands FM, MW (M) and LW (L) as well as the FM memory banks I, II and T.

**To switch over:**

Press BND as often as required. The selected mode appears in the display.

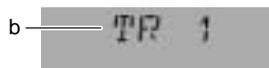
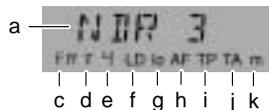
**TS** - Travelstore

To store and recall the five most powerful stations with Travelstore.

**To store:** Press button for approximately 1 sec. until you hear a beep and “T-STORE” appears in the display.

**To recall:** Select the memory bank “T” and press the corresponding preset button (1 - 5) briefly.

## 10 Display



- a) NDR 3 - Station name
- b) TR 1 - Track (side) 1 of the cassette
- c) FM - Waveband
- d) I, II, T - Memory bank I, II or Travel-store
- e) 4 - Preset button (1 - 5)
- f) LD - Loudness activated
- g) lo - Seek tuning sensitivity
- h) AF - Alternative frequency for RDS operation
- i) TP - Traffic station is received
- j) TA - Priority for traffic stations
- k) m - Manual tuning

## 11 Reversing the tape/fast winding

### Reversing the tape

Press **FR** and **FF** buttons at a time.  
“TR1” or “TR2” will appear.



### Fast winding

FR: Fast rewind - press FF to stop.  
FF: Fast forward - press FR to stop.

## 12 Cassette loading slot

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

## 13 Cassette ejection

Press .

## 14 REL (Releasing the detachable face)

The face of this unit can be detached for extra antitheft protection. You should take the detachable face with you when you leave your car.

### Detaching the face:

Press **REL**.

## Attaching the face:

Apply the right hand side of the face to the chassis first and then gently push the left side of the face against the front of the chassis until it snaps into place.



# Important notes

## Precautions

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

## Traffic safety

Traffic safety always has the highest priority.

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 of the vehicle, such as police or fire engine sirens, so that you can react accordingly.

Therefore, 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 radio 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 it is necessary for the positive power supply line to be connected to the ignition and the permanent +12 V lead.

Do not ground the loudspeaker outputs!

## Accessories

Use only the accessories and spare parts approved by Blaupunkt.

## Amplifier

All Blaupunkt amplifiers.

# Detachable face

This unit is equipped with a detachable face. You can remove the control face at a push of the REL button.

In order to prevent the unit from being stolen, we recommend you to take the detachable face with you when you leave your car. Re-inserting the face is child's play. The set will be ready for use immediately and you will find all of your previous settings re-adjusted.

## Detaching the face

- Press the **REL** button.

The unit will be switched off automatically. The control panel will be released in order for you to remove it.

## Attaching the face

- First, apply the right hand side of the face to the chassis.
- Second, gently push the left side of the face against the front of the chassis until it snaps into place.

The unit is now ready for use with the settings selected before the face was removed.

## Selecting the audio mode Radio operation with RDS (Radio Data System)

Using the **SRC** button (source) you can switch between radio and tape operation, if a tape is inserted.

When you insert a cassette, the unit switches automatically to tape mode.

To switch to the other source,

- press **SRC**.

The **Radio Data System** offers you more convenience when you listen to FM radio stations.

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

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).

If 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 also offers you further advantages:

### AF - Alternative frequency

The AF (Alternative Frequency) function makes sure that the strongest frequency of the currently selected programme is always tuned in automatically.

This function is activated if "AF" appears in the display.

In order to switch this function on or off,

- press the **AF** button for about 1 second.

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

If "SEARCH" appears in the display when you switch the radio on or when you recall one of the stored frequencies, the unit is 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 been run through completely.

If the sound quality of the selected programme deteriorates appreciably:

- Tune into another station.

### Selecting a waveband

You can select between the following wavebands:

FM 87.5 - 108 MHz

M 531 - 1602 kHz

L 153 - 279 kHz

- Press the **BND** button until the desired waveband shows on the display panel.

## Station tuning

### Automatic tuning $\wedge/\vee$

- Press  $\wedge/\vee$ ; the car radio will automatically search for the next station, if “m” does not light up in the display.

If you hold down the upper or lower part  $\wedge/\vee$  of the rocker switch, seek tuning will speed up in the upwards or downwards direction.



#### Automatic tuning

- $\wedge/\vee$  Up/down, if “m” does not light up in the display

#### Manual tuning

- $\wedge/\vee$  Up/down in short intervals, if “m” lights up in the display.

### Manual tuning

Manual tuning is only possible if “m” lights up in the display. “m” stands for manual and can be turned on/off:

- Press **lo.m** several times if required.

To tune to a station manually:

- Press  $\wedge/\vee$  - the frequency will change in short intervals in the downwards or upwards direction.

If you hold down  $\wedge/\vee$ , the frequency scan will speed up.

### Selecting the seek tuning sensitivity

You can alter the automatic seek tuning sensitivity.

To alter the sensitivity level:

- Press **lo.m** briefly.

If “lo” is displayed, the radio will only pick up strong, local stations.

If “lo” is off, the radio will also pick up weaker, distant stations.

If “m” lights up, manual tuning has been activated. Please refer to the section on “Manual tuning” for more information.

## Changing the memory bank

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

The 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 five stations on the preset buttons **1, 2, 3, 4, 5** for each of the memory banks I, II and T.

On MW(AM)/LW(L), you can also store five stations each.

- Select the desired memory bank.
- Tune in a station with the rocker switch (either automatically or manually).
- Press and hold down the desired preset button until the radio resumes play (takes approximately 1 second) or releases a beep.

Now the station has been stored.

The activated preset button is indicated in the display.

**Note:**

Should you tune in a station which has already been stored before, then the corresponding preset position and memory bank will briefly flash in the display.

**Automatically storing the strongest stations with Travelstore**

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

- Press the **BND/TS** button for 1 sec.

“T-STORE” will appear in the display.

The five strongest FM stations will be automatically stored on the memory bank “T” (Travelstore). After this process has been completed, the radio will play the first station stored on preset 1.

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

**Recalling stored stations**

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

- Select the memory bank with **BND/TS**.
- Press the corresponding preset button briefly to recall the station.

**Switching between stereo and mono**

Each time the radio is switched on, stereo playback is activated automatically.

The unit will gradually switch to mono if reception is poor.

You can also switch between mono and stereo reception manually:

- Press the **lo.m /**  button for approximately 1 sec.

The selected condition will briefly appear in the display.

**Loudness**

If the system is played at a low volume level, the Loudness function creates a more natural sound by boosting the low frequency range.

To turn Loudness on/off:

- Press **AUD** for about 1 second.

“LD” appears in the display, if the Loudness function is activated.

# Receiving traffic programme stations with RDS-EON

EON stands for Enhanced Other Networks, meaning the exchange of information within a radio network.

Many FM broadcasters offer traffic messages for their service area at regular intervals.

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

In addition to these, there are also stations which do not actually transmit traffic programmes themselves, but by using RDS-EON they make it possible to receive the traffic messages broadcast by another traffic programme station in the same radio network.

If you wish to have the priority for traffic announcements activated while listening to one of these stations (e.g. NDR3), "TA" 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, "TA" will light up in the display.

To switch the priority on or off:

- Press the **TA** button.

If **TA** is pressed while a message is broadcast, this message will be interrupted.

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

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

## Beep tone

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

This tone will also be released if a preset button is pressed which has no traffic programme allocated to it.

## Switching off the beep tone

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**.  
"TA" will disappear from the display.

## Automatic seek tuning start

(tape operation)

When you leave the reception area of the tuned in traffic programme station while listening to a tape, the system will automatically start searching for a new TA programme.

If no such station is found within approximately 30 seconds, tape operation will be stopped and a beep tone will sound. To switch off the beep tone proceed as described above.

## Tape operation

### Adjusting the volume for traffic messages

This volume was preset at the factory, though you can alter the value.

To alter the volume of traffic messages:

- In radio or cassette mode, press the **+ / -** button and adjust the volume you wish to have for traffic messages.
- Press **TA/AF** for about 3 seconds until “TA VOL” appears briefly in the display.

Traffic messages will be played at a higher volume than the normal audio playback, if the priority for traffic messages has been activated before.

If the volume level is altered while a message is played, this will only affect the current announcement.

The car radio has to be switched on. The unit will automatically switch to tape operation when a tape is inserted.

### Inserting a tape

- Turn on the set.
- Insert a tape.

Side A or 1 will be played.

During tape operation, “TR 1” or “TR 2” (track) will be indicated on the display panel.

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



### Removing a tape

- Press **△**.  
The cassette will be ejected.

### Fast winding

#### Fast forward

- Press **FF** (fast forward).

When the end of the tape is reached, the mechanism will reverse the tape and start playing the other side.

#### Stop fast forward

- Press **FR**

#### Fast rewind

- Press **FR** (fast rewind).

When the beginning of the tape is reached, the mechanism will start playback.

#### Stop fast rewind

- Press **FF**.

#### Fast winding

FR: Fast rewind; press FF to stop

FF: Fast forward; press FR to stop



#### Reversing the tape

Press both buttons at a time.

“TR 1” or “TR 2” will appear in the display.

# Appendix

## Reversing the tape (autoreverse)

To change the tape direction during cassette playback:

- Press **FR** and **FF** briefly.

At the end of a tape side the mechanism changes directions automatically to play the other side (autoreverse).

The display shows "TR 1" for track (side) 1 or "TR 2" for track 2.

### Note:

If there is too much tension on the tape during playback, the set may switch over by itself before having reached the end of the tape side. In this case check the condition of the cassette tape. Sometimes it helps to rewind it completely.

## Care notes

To avoid possible problems, we recommend you to use C-60/C-90 type cassette tapes only. Store your tapes in a cool place away from dirt, dust and temperatures exceeding 50 °Celsius. Allow very cold tapes to warm up before playing them in order to avoid uneven tape transport. After approximately 100 hours of use, dust particles collected on the playback head or roller may lead to tape run problems and sound distortions.

Use a head cleaning tape to remove normal dirt build-up. For tougher cases, use a cotton swab (Q-Tip) dipped in alcohol. Do not attempt to clean by inserting a hard object into the player!

## Specifications

### Amplifier

Output power: **Caracas RCR 27**  
2 x 5.5 W RMS power  
acc. to DIN 45 324 at  
14.4 V  
2 x 10 W max. power

### Rio RCR 87

4 x 19 W RMS power  
acc. to DIN 45324 at  
14.4 V  
4 x 20 W max. power

### Tuner

Wavebands:

FM: 87.5 - 108 MHz  
MW: 531 - 1.602 kHz  
LW: 153 - 279 kHz

FM sensitivity: 1.0  $\mu$ V at 26 dB  
signal-to-noise ratio

FM frequency response:  
35 - 15.000 Hz

### Tape player

Frequency response:  
35 - 15.000 Hz

Subject to modifications!

## **Blaupunkt telephone help line**

### **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 but haven't got our service list at hand:

- Find out your area code.
- Then call the following phone number (subject to charges):  
**01 80 / 5 25 56 66.**
- Using the area code you enter this service will automatically provide you with the address and phone number of the Blaupunkt service centre nearest to you. You can also request this information by fax.

**Blaupunkt-Werke GmbH**  
**Bosch Gruppe**

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