

Operating instructions



Madrid RCM 105



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Short description

① ON

Switching on:

Press **ON** (the KeyCard has to be inserted), the set plays with the pre-adjusted volume. You may also change this setting (see chapter “DSC programming - VOL FIX”).

Switching off:

Press **ON** for approximately 1 second. If the set was turned on by pressing **ON**, the KeyCard can be used for switching the system on and off (KeyCard = passive anti-theft protection).

The set may also be turned off via the vehicle's ignition (provided that it was connected correspondingly). After the ignition was switched off, a double beep tone reminds you that you should remove the KeyCard before leaving your vehicle.



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

Press **ON** approximately 8 seconds 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.

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 and II.

To change the memory bank:

Press button until the desired level is indicated in the display.

④ TS - Travelstore

To store the six most powerful stations automatically with Travelstore:

Store: press **TS** until seek tuning starts in the display.

Recall: press **TS**, “T” is indicated in the display. Then briefly press one of the presets **1, 2, 3, 4, 5, 6**.

⑤ -dB

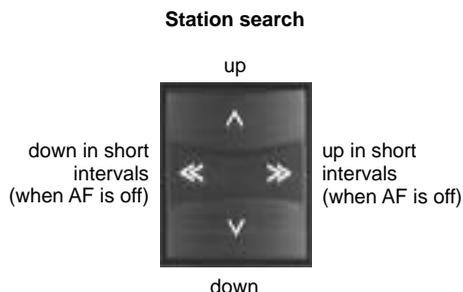
Press the **-dB** button to instantly mute the audio source. The display will then show “MUTE”. Return to normal volume by pressing either the **-dB** button once again or the **VOL+** button.

When pressing **VOL-**, the normal volume will be identical to the **-dB** (muted) volume.

To program the mute volume, proceed as follows:

Adjust the desired volume with the **VOL+ / VOL-** button. Confirm your entry 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



Extra functions:

In the DSC mode

Select function and program parameter.

In the AF mode

(AF in the display)
Use the << >> button to scroll through the programs of a radio network, e.g. from NDR1 to NDR4 (North German broadcaster).

Track \wedge/\vee

CD operation (option)
Press briefly: to select the title.
Hold down: CUE/REVIEW

CD << >>

To select the disc.

⑦ Display

Cassette mode



TR 2 (Track 2)

CD-mode (option)



Disc number, title number

Radio mode



Station name (RIAS / DSK)
Memory bank (FMT)
Preset button (2)

⑧ KeyCard

In order to operate the set, the KeyCard has to be inserted.



For this purpose, introduce the **Key-Card** (contact area showing up) into the corresponding slot above the flashing KeyCard tongue.
Read also the information given in the "KeyCard" chapter.

⑨ AF button (alternative frequency) during 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 the **AF** button briefly. When pressing the **AF** button for about 2 seconds, the display will show REG-ON or REG-OFF (see REG - regional).

⑩ PS

Radio functions:

PS (preset scan)

Press button shortly - the system will briefly play all stations stored on the preset buttons.

⑪ TA

TA (Traffic Announcement)

If TA lights up in the display, the system will only play traffic stations.

TA on/off: Press the TA button.

⑫ 1, 2, 3, 4, 5, 6 - preset buttons

You can store 6 stations on each 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 and press the corresponding preset button.

13 **SCA /SCAN)**

Radio functions:

Press **SCA** - the system will briefly play all stations stored on the preset buttons.

CD functions (option):

To sample the CD tracks.

To start or stop the scan function:

Press SCA briefly.

14 **RM (Radio Monitor)**

Press this button to listen to the radio while fastforwarding or rewinding the tape.

During tape operation:

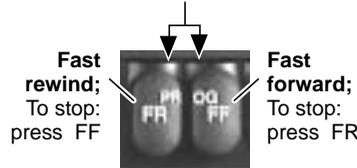
To switch RM on/off: Press button.

When this function is activated, the display shows "RM".

15 **Fast winding/Autoreverse**

Switch-over to the other track

Press simultaneously TR1-PLAY or TR2-PLAY on the display



16 **Cassette slot**

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

17 **Eject tape**

Press ▲ .

18 **DSC (Direct Software Control)**

Use the DSC function to adapt a number of programmable basic settings according to your preference. For more information, read through chapter "DSC programming".

19 **dx/lo**

To change the seek tuning sensitivity. "lo" lit up in the display indicates normal seek tuning sensitivity (the system will pick up all powerful, nearby stations).

"lo" does not lit up (dx) in the display indicates high seek tuning sensitivity (the system will also pick up weaker stations).

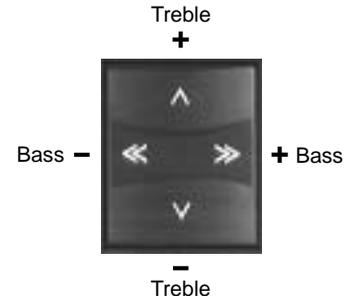
To change the seek tuning sensitivity: press **dx** or **lo**.

20 **MIX**

→ See chapter CD changer control.

21 **AUD**

To adjust the treble and bass frequencies using the rocker button.



The last setting will be automatically stored.

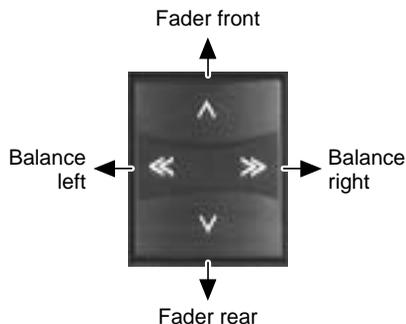
If the setting remains unchanged within 8 seconds, the display will return to the previous status.

22 **LD**

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

23 **GEO**

To adjust the **BALANCE** (left/right) and **FADER** (front/rear).



The last setting will be stored automatically.

If the setting remains unchanged within 8 seconds, the display will return to the previous status.

24 **SRC (source)**

To select between the connected audio sources, e.g. cassette, radio, AUX or CD changer (option).

Important notes

What you must know!

Before starting to use your new car radio, you should carefully read through the following information.

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 would advise you not to use the radio.

When adjusting the volume, make sure that you are still able to hear all sounds coming from outside of the vehicle, so that you are always able to react to warning signals, for example from the police or the fire brigade.

Installation/connection

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.

Optical indication of theft protection

When the car is stationary, you can let the KeyCard tongue 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/OFF".

KeyCard

The car radio can only be operated using either KeyCard 1 or 2. Their codes are stored in the unit.

Turn on the set and introduce the KeyCard completely. The car radio is now ready for operation. When inserting a wrong KeyCard, the display will show "----".

After approximately 10 seconds, "CARD ERR" will appear in the display. In this case do not make any further adjustments until you have the corresponding KeyCard available.

Never try to pull out the KeyCard by force.

First, slightly press the card in. This releases the KeyCard; the display shows "LEARNING". Now you can pull out the card. Should the KeyCard be lost or damaged, then please contact one of our authorised service partners to get a new card.

The service centres are marked (□) in the car radio service centre list. In case of doubt, please contact the central service centre in your country for more information on the KeyCard service centre closest to you.

Use either KeyCard (1 and 2) to individually store the following functions as desired: bass, treble, balance and fader settings, pre-set stations, loudness, TA (traffic announcement volume), SPEECH (tone control for speech programs), BEEP volume, SCANTI-ME, VOLFIX.

Moreover, the parameters adjusted last such as the station, TA priority, loudness, AF, RM, REG ON/OFF or seek tuning sensitivity remain stored.

With this, you will always find your basic settings adjusted again after you have inserted your KeyCard.

Replacing a KeyCard

Any KeyCard can only be replaced by a new one with the same identification number (1 or 2).

For example, to replace KeyCard 2,

- insert KeyCard 1 into the set and turn it on.
- Slightly push in the card so that it is released; the display will show LEARNING.

- Take out KeyCard 1 and insert the new KeyCard 2 while the display is still showing LEARNING.

You can now use the new KeyCard 2 to operate the set.

To turn it on, you can only employ one KeyCard 1 or 2.

Radio operation with RDS (Radio Data System)

The Radio Data System offers you more convenience for listening to FM.

An ever increasing number of FM radio stations broadcast additional information in parallel with their normal program.

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.

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

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 normal RDS service again, switch to "REG OFF".

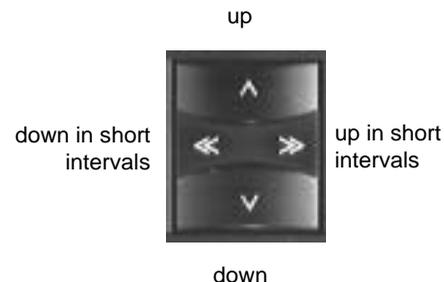
- Hold down the **AF** button for about 2 seconds until "REG OFF" is displayed.

The display will show "REG ON" or "REG OFF" each time the radio is switched on.

Automatic seek tuning \wedge/\vee

- Press \wedge/\vee . The radio will automatically tune into the following station.

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



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.

If “**lo**” is indicated, the radio will only pick up strong stations (low sensitivity).

When switching on **dx** (“lo” goes out), the system will also pick up less powerful stations (higher sensitivity).

To switch over:

- Press **lo** or **dx**.

The degree of sensitivity can be separately adjusted for both levels (see chapter “DSC programming”).

Stereo - mono switch

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

During mono reception the stereo symbol  in the display will go out.

To switch over:

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

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

You can shift between the memory banks I, II, and T to store and recall preset stations.

The selected memory bank is indicated in the display.

- Press **FM** or **TS** 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 the waveband.
- Use the rocker switch to tune to a station (either automatically \wedge/\vee or manually $\ll \gg$).
- Press the desired preset button and hold it down. The radio will be muted and will resume play after approximately 2 seconds.

Now the station is stored. The activated preset button is indicated in the display.

Note:

Should you tune into a station which has already been stored, the corresponding preset button and the memory bank will start flashing in the display for a short while, if you have selected another memory bank.

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 six 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 the waveband using **FM** or **TS**.
- Briefly press the corresponding preset button.

Sampling stored stations briefly with Preset Scan

With this function you can briefly sample all preset stations. Choose the desired SCANTIME in the DSC menu.

- Press **PS**.

The radio will briefly play all the stored stations one after another.

The system will sample the stations of one of the memory banks I, II, or T, depending on which bank was selected before. Free preset buttons will be skipped.

To switch off Preset Scan:

- Press **PS** once again.

The radio 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. Choose the desired SCANTIME in the DSC menu.

To activate Scan:

- Press **SCA**.

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 or to switch Scan off:

- Press **SCA**.

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 (Enhanced Other Networks)

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**” (Traffic Program).

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 for approximately 2 seconds.

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 without a traffic program.

Switching the warning beep off

- a) Tune to another traffic program station:
 - Press the rocker switch, or
 - press a preset button with a station offering traffic information.

Alternative:

- b) Switch off the priority for traffic announcements:

- Press **TA**.
In the display, the “**TA**” indication goes out.

You can reduce the beep tone volume to the pre-selected mute volume.

- For this purpose, press **-dB**.

Automatic seek tuning start

Prerequisite:

Priority for traffic announcements is activated.

If you leave the reception area of your traffic program while listening to a tape or disc or when having turned down the volume completely, the car radio will automatically tune into another traffic program station.

If no such traffic program station is found within approximately 30 seconds, tape or disc reproduction will be interrupted and the system will send out a warning beep. To switch off the warning beep, proceed as described above.

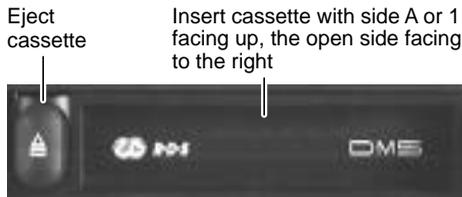
Adjusting the traffic message volume

The volume of the warning beep and of the currently played or stored traffic message has been pre-adjusted at the factory. However, you can change this default setting using the DSC function (see “DSC programming - TA LEVEL”).

Tape operation

Inserting a tape

- Turn on the set.
- Insert a tape.



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

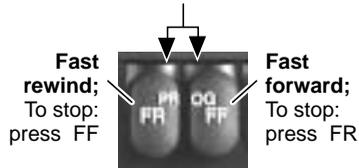
- Press **FR** (fast rewind).
When the tape has been completely rewound, the set will start playing the same track again.

To stop fast rewind:

- Press **FF**.

Switch-over to the other track

Press simultaneously
TR1-PLAY or TR2-PLAY on the display



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.

Listening to the radio during fast winding with RM (Radio Monitor)

When the tape is fastforwarded or rewound, the radio is normally muted. To listen to the radio during fast winding:

- Press **RM**. "RM" lights up on the display.

DSC programming

Changing the audio source with SRC

Use this button to select between radio, tape, or CD (option) 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!

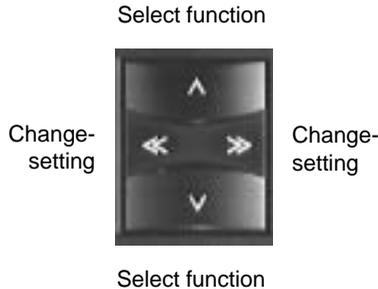
This car radio offers direct software control (DSC), which allows you to adapt a number of default settings to your preference and to store these values.

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 and the **-dB** button to select and change the functions described below. The display shows the adjusted status.



CDC NAME (only, if changer is connected)

Use this function to name your discs (see also CD changer control, "Entering/ displaying CD names")

ANGLE

Select one of the values -1, 0, or +1 to adapt the individual viewing angle.

Adjust the ANGLE so as to provide the best view.

BEEP

Acknowledgement 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 16. 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 lighting connector has to be connected to the electric system of the car.

CD DISP	(only, if changer is connected) During CD operation, use << >> to select between the following displays: NAME – the name specified with CD NAME. TIME – the playback time of the title. NUMBER – disc and track number.	SCANTIME	Use this function to specify the scan time in the radio mode). Choose a value between 5 and 30 seconds.	TA LEVEL	Use this function to adjust the volume of the traffic announcements and the warning beep between 1 and 9. It is also possible to adjust the fader, balance, treble, and bass settings. The last adjustment will be stored. The announcement will be played in accordance with the specified values.
LED ON	You can select between LED ON and LED OFF. When setting LED ON, the Key-Card tongue will flash for optical theft protection when the set is switched off and the KeyCard removed.	S-DX 1	Use this function to adjust the seek tuning sensitivity for distant reception. DX. 1 - high sensitivity DX. 3 - low sensitivity	CD UPD	(only, if changer is connected) Use this function to delete named discs in order to get new memory capacities for new CD names (see also "CD changer control, Deleting CD names")
LOUDNESS	When listening at a low level, the loudness function will create a more natural sound by emphasizing the low frequency range. LOUD 1 - low boost LOUD 6 - strong boost	S-LO 1	Use this function to adjust the seek tuning sensitivity for local reception. LO1 - high sensitivity LO3 - low sensitivity The seek tuning sensitivity values can be separately adjusted for AM and FM.	VOL FIX	Use this function to adjust the initial volume when the set is switched on. Use << >> to adjust the desired initial volume.
		SPEECH	In future, the RDS broadcasters will differentiate between music and speech programs. Use the "SPEECH" function to adjust the sound settings for speech programs separately.		

To quit the DSC mode and store the setting:

- Press **DSC**

CD changer control (option)

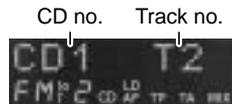
This car radio makes it possible to remote control a Blaupunkt CD changer: CDC-A03, -F03, -A05.

Switching the CD mode on using SRC of the car radio

Be sure that a CD magazine is inserted in the changer. Use the **SRC** button to change the audio source (radio - changer - cassette) Press **SRC** until the changer functions appear in the display. First, "CD ON" is displayed briefly, then e.g.

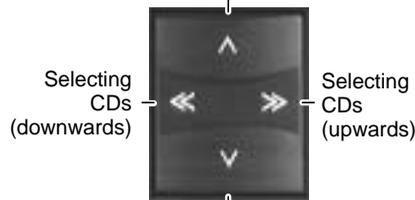
CD1 -T1

CD = Disc, **T** = TRACK



Selecting a CD/track using the rocker switch

Selecting a track (upwards): press briefly
CUE - fast advance (audible): press and hold down



Repeating a track: press briefly
Selecting a track (downwards): briefly press two or more times
REVIEW - fast reverse (audible): press and hold down

The display shows which mode has been selected.

SCAN

For briefly sampling the CD tracks.

Start SCAN:

- Press **SCA** on the car radio. The tracks are briefly played in ascending order.

Stop SCAN:

- Press **SCA** briefly. The radio will keep on playing the track scanned last.

MIX

For playing the CD tracks at random.

MIX CD – The tracks of the selected CD are played at random. The following CDs are selected in numeric order, their tracks are played at random.

MIX MAG – All tracks of the CD magazine are played at random.

MIX OFF – MIX is switched off. The tracks are played in numeric order.

Selecting the MIX function:

- Press **MIX** until the desired function is briefly shown in the display.

If MIX is on, "MIX" is shown in the lower right corner of the display.



Entering/displaying CD names

You can allocate names for up to 99 CDs. When playing a CD, the display will then give you the entered name, e.g. VIVALDI.

Precondition: NAME must be set under DSC - CD DISP.

Entering a name:

Be sure that at least one CD is inserted in the CD magazine.

- Press **SRC** to change to CDC.
- Press **DSC**.
- Press the rocker switch \wedge/\vee until CD NAME is displayed.
- Press **-dB**.

The first character position flashes.

- Select a character using the rocker switch \wedge/\vee .

The display will give you one after the other the capital letters (A-Z), the special characters and the numbers 0-9.

- Use the rocker switch $\ll \gg$ to change to the next character position and select a character.

Each name may have up to seven characters.

To complete the entry:

- Press **-dB**. The entry is stored and you can now select another DSC function using the rocker switch \wedge/\vee .

Alternatively:

- Press **DSC**. The entry is stored and you quit the DSC menu.

Storing the entry/selecting the next CD:

- Press **-dB** and select the next CD using $\ll \gg$.
- Press **-dB** and enter a name.

Storing a new name deletes the previous name (overwrite).

Deleting CD names

If you try to store more than 99 CD names, "FULL" will be shown in the display. In the DSC mode, you can delete the name of one or more CDs to free memory space.

The function CDC-UPDATE can be used to confirm all CDs, which names you wish to maintain. All the other names will be deleted.

- Press **DSC**.
- Insert a magazine with the CDs, which names you wish to maintain.
- Press \wedge/\vee until "CDC UPD" is displayed.
- Press $\ll \gg$ and "LOAD CD" is displayed.

After having confirmed all CDs of this magazine, "NEXT MAG" appears in the display.

- Press **EJECT** on the CD changer and insert the next magazine.

Repeat these steps for all CDs, which names you wish to maintain.

- To finish your selection, press **-dB** for about 2 sec. until "UP DATING" appears in the display. The updating process is completed, when the display shows "READY".

The names of all CDs you have inserted remain stored in the memory. For all the other CDs, the names are deleted.

You can interrupt this process by pressing **DSC**.

Survey of DSC default settings

ANGLE	0
BEEP	4
BRIGHT	16
CD DISP	NAME
LED	ON
LOUDNESS	3
SCANTIME	10s
S - DX	2
S - LO	2
SPEECH	0
TA LEVEL	5
VOL FIX	20

Appendix

Technical data

Amplifier:

Output power: 4 x 20 watts RMS acc.
to DIN 45 324
4 x 25 watts max.
power acc. to
DIN 45 324

FM sensitivity: 0.9 μ V at 26 dB
S/N ratio

Frequency response:

FM 35 - 16,000 Hz (-3 dB)

Cassette 30 - 16,000 Hz (-3 dB)

Subject to modifications!

Blaupunkt-Werke GmbH
Bosch Gruppe

K7/VKD 3 D94 147 026