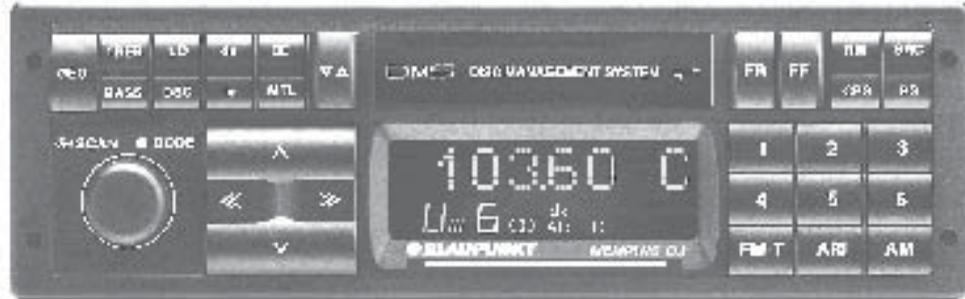
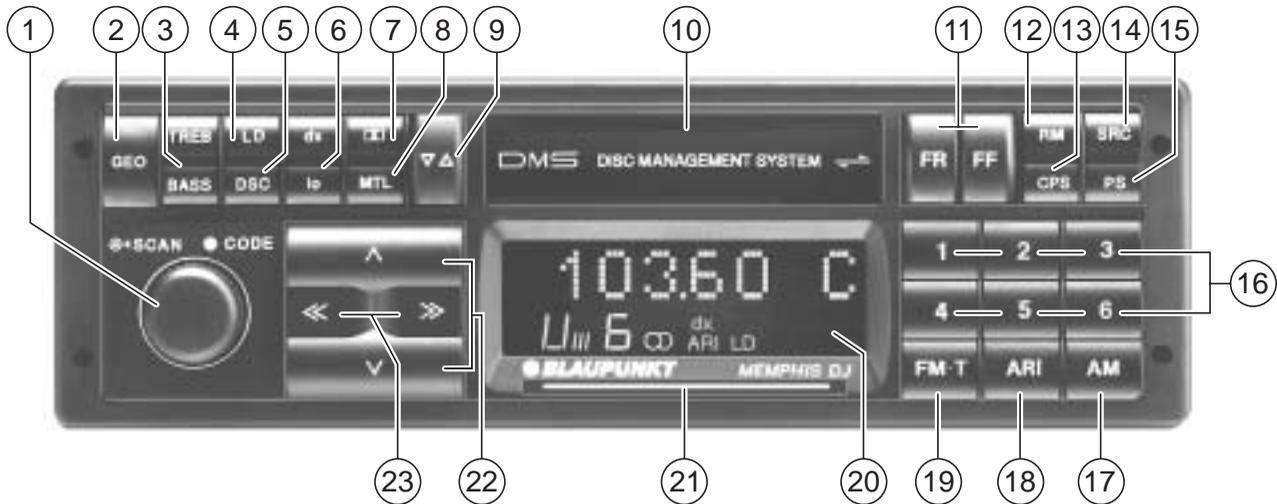


## Operating instructions



# Memphis DJ



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# Important notes

## ⚠ Notes on road safety

Being the driver of a motor vehicle you must direct your full attention on the traffic. Thus use your car radio set such that you are always able to cope with the present situation on the road.

In critical situations we even advise you to turn your set off. By all means, inattentions should be avoided. Please consider that you are still moving 14 m per second at a speed of 50 km/h.

When adjusting the volume please pay attention that you are still able to hear, and react to, acoustic warning signals around you.

## Connection

If you intend to install the set by yourself or to add other audio components to your in-car equipment, follow the enclosed installation and connection instructions.

## Telephone operation

When operating a car telephone in your vehicle, radio or cassette reproduction can be muted automatically.

For this, however, the car telephone must be connected to this radio/cassette combination.

# Front Panel Description

## KeyCard

This car radio can be operated only with a KeyCard the code of which is stored in the set.

Switch the set on with button ① and completely insert the KeyCard in the predetermined position ⑳.

If an incorrect KeyCard is inserted, “----” is indicated in the display.

In such a case, carefully read the instructions under “Theft protection”.

Never pull out the KeyCard. First push in the KeyCard (card is transported into playing position), then remove it.

If your KeyCard gets lost or damaged, one of the Blaupunkt service locations will help, provided you present the car radio passport. These service locations are marked (□) in the car radio service register. If necessary call the service center of your country for detailed information about your local service workshop.

This quick guide to operation consists of four parts:

## Tone control

## Radio operation

## Cassette operation

## CD operation

Twin functions are described separately. All functions which require more information are additionally described in chapter “Notes on operation”.

### ① On/off knob - Scan On/off

Turn the knob to switch on (“CARD” is shown in the display). If no KeyCard is inserted, the set switches off automatically after 10 sec.

To switch on or off, simply insert or push against the KeyCard.

### SCAN

By pressing SCAN, the receivable stations of the activated waveband (FM, AM) are searched and played for a short time.

### ⑳ Inserting the KeyCard

Insert the KeyCard in the direction of the arrow in the predetermined position. Push against the card to remove the KeyCard.

## Tone control

### ① Volume control

### ② GEO (balance and fader control)

Press button - the display ⑳ a shows BAL (balance) or FAD (fader) and a number between -9 and +9.

**Balance:** Use rocker switch << >> ㉓ to adjust the left/right volume.

**Fader:** Use the rocker switch ^/∨ ㉔ to adjust the front/rear volume.

### ③ Sound adjustment (TREB, BASS)

#### TREB - for treble adjustment

Press TREB - the display ⑳ a shows TRE and a number between -6 and +6. Use the rocker switch << >> ㉓ to adjust treble.

#### BASS - for bass adjustment

Press BASS - the display ⑳ a shows BAS and a number between -7 and +7. Use the rocker switch << >> ㉓ to adjust bass.

The adjustments are finished by pressing BASS, TREB or GEO. Approx. 8 seconds after the last adjustment the display automatically shows again radio or cassette functions.

#### ④ LD - for Loudness

Loudness - boosts bass at low volume. Press the LD rocker switch to switch Loudness on/off. If Loudness is on, "LD" lights in the display ⑳ j.

#### ⑤ DSC - (Direct Software Control)

To adjust the Loudness for example (see "Notes on operation"). The chapter "Notes on operation" describes separately all the basic adjustments which can be set with the DSC function. This includes the display colour, search tuning sensitivity, Loudness, volume of traffic messages, beep (after key operations) and display of the station name.

## Radio operation

#### ⑥ dx, lo - search tuning sensitivity

Press **dx** -  
 "dx" lights in the display ⑳ g.  
 High search tuning sensitivity; search tuning stops also at weaker stations. Stereo programmes are played in stereo.

Press **lo** -  
 "lo" lights in the display ⑳ e.  
 Normal search tuning sensitivity; search tuning only stops at stations offering good reception. Stereo programmes are played in stereo.  
 As the reception conditions can vary from region to region, the DSC function allows you to individually store the search tuning sensitivity (see search tuning sensitivity).

#### ⑮ PS - Preset Station Scan

To scan the stored FM programmes on all memory banks.  
 Press PS - the programmes are played for 8 seconds.  
 Quit this function by pressing this button once again.

#### ⑮ Buttons 1, 2, 3, 4, 5, 6 (preset buttons)

##### Storing stations -

Press this button until the set resumes play.

##### Recalling stations -

Push button

#### ⑰ AM

Waveband selector for the medium-frequency band between 531 and 1602 kHz.

#### ⑱ ARI

To switch on the priority for ARI traffic stations.  
 If "ARI" is in the display ⑳ h, only ARI traffic stations in the band between 87.5 and 108 MHz will be received. The messages are automatically switched through and the ARI alert is in standby mode.  
 Press the ARI button to switch ARI on and off.

#### ⑲ FM•T

Waveband selector for the FM band between 87.5 and 108 MHz, selector for the FM memory banks I-III and T (Travelstore).

Six FM stations can be stored on each memory bank with the help of the buttons (16). On the Travelstore level "T" you can automatically store the six strongest stations of your area.

## 20 Display for

- a) Frequency, station name, code
- b) Wavebands (U=FM, M=AM)
- c) FM memory banks (I-III or T)
- d) Preset buttons (1-6)
- e) lo (normal search tuning sensitivity)
- f) Stereo
- g) dx (high search tuning sensitivity)
- h) ARI (priority of ARI traffic stations)
- i) B (Dolby-NR switched on)
- j) LD (Loudness switched on)
- k) MTL (CrO<sub>2</sub> and metal cassettes)
- l) RM (Radio Monitor switched on)
- m) CPS switched on
- n) ARI zone ident

## 22 $\wedge/\vee$ Search tuning rocker switch - station selection

## 23 << >> Rocker switch for manual tuning.

## Cassette operation

### 7 $\square\square$ - Dolby-NR\*

Press  $\square\square$  -

Cassettes with Dolby noise reduction can be played.

On these cassettes background hiss is much lower and dynamics are better.

\* Noise reduction system manufactured under the licence of Dolby Laboratories. The Dolby logo and the double D are registered trademarks of Dolby Laboratories.

### 8 MTL - Metal

Press this button when chromium dioxide (CrO<sub>2</sub>) or metal cassettes are played. Switch off this function by pressing MTL once again.

### 9 $\Delta\nabla$ - Autoreverse

Press button - the other track of the cassette will be played.

The display (20) a shows which track is played.

TR1-PLAY - track A or 1

TR2-PLAY - track B or 2

### 10 Cassette compartment

### 11 Fast winding and cassette eject FR (Fast rewind) -

Press button for fast rewind. Stop fast rewind by pressing the FF button.

### FF (Fast forward) -

Press button for fast forward. Stop fast forward by pressing the FR button.

### Cassette eject

Press the buttons FR and FF (11) simultaneously to eject the cassette out of its compartment.

### 12 RM - Radio Monitor

This function allows to listen to radio programmes during fast winding of the cassette. "RM" is indicated in the display (20) l.

### 13 CPS

To repeat or skip music tracks on the cassette. "CPS" is indicated in the display (20) m.

### 14 SRC - Source

To switch between the audio sources (cassette → radio → CD → cassette)

## CD operation

If a Blaupunkt CD Changer without remote control is connected to this system, the CD functions can be controlled as follows:

### ⑭ SRC - Source

Allows to switch to CD Changer operation. The indicator ⑳ a shows the disc/track display.

### ① SCAN - On/Off

To scan the CD tracks.

Press SCAN - the tracks are played one after the other for 10 seconds each.

“TR” flashes and the track is shown in the display ⑳ a.

Press SCAN once again to quit this function.

### ⑳ ^/v Rocker switch to select the tracks

Upper part depressed

shortly: Skip to next track

more than 1 sec.: Cue

Lower part depressed

shortly: Skip to previous track

more than 1 sec.: Review

### ⑳ << >> Rocker switch to select the CD

Right part depressed - next CD

Left part depressed - previous CD

For further information please see the operating instructions of your CD changer.

### External CD player

If an external CD player is connected (via Aux jack), the SRC button ⑭ allows to switch between the audio sources (cassette → radio → CD → cassette).

The display ⑳ a shows “AUX”.

## Tone control

### The Loudness

At low volume the human ear is less sensitive to bass than to medium and higher frequencies. This effect is reduced with increasing volume.

The Loudness function compensates this effect. Since the perception of music and speech depends on the type of the equipment (amplifier), the configuration and type of the loudspeakers and on the type of the motor vehicle, the Loudness function has been made adjustable.

To set the Loudness threshold adjust normal volume and follow the steps below:

- Press the DSC button ⑤.
- Press the rocker switch ^/v ⑳ until the display ⑳ a shows “Loud” and a number between 1 and 6.
- Use the search tuning rocker switch << >> ⑳ to adjust the Loudness threshold.
- Press the DSC button ⑤ after the adjustment.

# Radio operation

## Selecting the waveband

FM - with FM-T button (19).

AM - with AM button (17).

## Selecting a station

### ... using Scan (on/off) (1)

If you wish to tune to another station

- press the Scan button (1).

Starting from the currently received radio programme, the set automatically tunes to the next station frequencies in upward direction and plays them for 8 seconds. During search tuning, the display (20) a shows "SCAN" and while the radio programmes are previewed the station frequency flashes in the display (20) a.

To select a scanned station

- press the Scan button (1) once again. The Scan function is switched off.

If you do not select a station, the set plays again the radio programme which was tuned in before Scan was activated.

### ... using the search tuning rocker switch

Start automatic search tuning

- by pressing the rocker switch  $\wedge/\vee$  (22). Start search tuning as often as required until the radio programme of your choice is tuned in.

If you hold the rocker switch depressed, search tuning continuous quickly.

### ... using preset buttons and memory banks

This function can be used only, if station frequencies have been stored on the preset buttons as described in chapter "Storing a station".

- To recall FM stations, press the FM•T button (19) until the desired memory bank I, II, III or T is shown in the display (20) c.
- Then press shortly the desired preset button.

### ... using Preset Scan (PS) (15)

This function allows you to scan and introduce the stored radio programmes of the selected waveband (in FM mode on all memory banks I, II, III and T).

This function can be used only, if station frequencies have been stored on the preset buttons as described in chapter "Storing a station".

- Press PS shortly. The set introduces the next preset programme.

The programme of this station is played for a short time, then the next preset programme is scanned, etc. If no frequency is stored on a preset button, this preset is skipped.

Preset Scan can be used on all wavebands. As soon as you have found the programme of your choice

- press PS once again. Preset Scan is switched off.

## Storing a station

In the FM mode, six stations can be memorized on each of the three memory banks. Use the FM•T button (19) to select the memory bank. Another six stations can be stored on the AM range. Beyond that, the six strongest FM stations can be stored automatically on the Travelstore bank.

When required, the stored stations can be recalled by pressing a button.

### ... using automatic search tuning

If you want to memorize a station frequency follow the steps below:

- For FM stations, select the memory bank by pressing the FM•T button (19) as often as required. The display (20) c shows I, II, III or T.

To store a station frequency,

- press one of the preset buttons (16) until the radio mute is off and the set resumes reproduction of that programme (after about 2 seconds) to indicate that the station is stored.

The display (20) d shows which preset button is pressed.

Follow these steps if you want to store further stations of all wavebands on the other preset buttons and memory banks.

If the automatic search tuning stops on a frequency which was already stored before, then the corresponding preset button will be indicated for about 5 seconds in the display (20) d together with the memory bank (20) c, but the latter only if it is an FM station.

### ... using Travelstore

The Travelstore function automatically stores the six strongest FM radio stations of your area and sorts them according to their field strength. This function is helpful, above all, on long-distance travels.

To memorize these stations with Travelstore

- press the FM•T button (19) for about 2 seconds.

The radio reproduction is muted until the six strongest stations are stored.

If required, stations can also be stored manually on the Travelstore bank. The display shows dashes to indicate the free preset buttons.

### ... using manual tuning

If you want to manually tune in and store a station, use the rocker switch << >> (23) to enter the frequency.

- Use the FM•T (19) or AM A button to select the waveband.

If you wish to store an FM frequency,

- use the FM•T button (19) to select the memory bank.
- Adjust the frequency with the rocker switch << >> (23).

Store the frequency by

- pressing the preset buttons (until the set resumes play).

In addition to the stored station frequencies, the stations tuned in last on each waveband remain stored.

### The mono switching

Your car radio is fitted with a Blaupunkt FM tuner (Codem III) which provides for mostly undisturbed reception on the road.

In areas with poor reception conditions or multipath interferences due to signal echoes, the radio set switches gradually between stereo and mono. This considerably improves the on-the-road reception quality.

To avoid stereo noise common in very critical reception areas, we recommend to switch to mono.

To switch between stereo ↔ mono

- press lo (6) for more than 2 seconds. In mono mode, the stereo indicator (20) f goes off.

### Adjusting the search tuning sensitivity

- a) with dx and lo (6).

The adjustment is shown in the display (20) e and (20) g.

lo - Normal search tuning sensitivity (local)

dx - High search tuning sensitivity (distant)

- b) via software with DSC

When the station density is extremely high or low, it can be useful to separately adjust the level of the two sensitivities. For this,

- press the DSC button (5). Press the rocker switch  $\wedge$ /V (22) until "DIS" (sensitivity level dx) or "LOCAL" (sensitivity level lo) and a number between 1 and 3 are shown in the display (20) a. Use the dx and lo button (6) to switch between LOCAL and DIS.

- Use the rocker switch << >> (23) to adjust the sensitivity:  
01 for high sensitivity  
03 for normal sensitivity
- Press the DSC button (5) after the adjustment.

## Display of station name with Preset Naming System (PNS)

If you select a station, the display (20) a shows the station frequency. Beyond that, this car radio allows you to change this indication and, for example, to enter the station name instead (NDR, BBC, etc.). This is possible under the following conditions:

Indications of FM and AM stations can only be changed if they are memorized on the FM (I, II, III) and AM memory bank, respectively. Then, however, the zone ident for traffic information broadcasts (ARI) will not be displayed.

- Press the DSC button (5).
- Press the rocker switch  $\wedge/\vee$  (22) until "PRESET" shows in the display (20) a.
- Select the station for which you want to enter a name.

The station frequency is shown in the display (20) a. Free entry fields are filled with dashes. The first dash flashes. To enter any character,

- press the rocker switch << >> (23).

The display successively shows a point, the numbers (0 to 9), the capital letters (A to Z), the blank and special characters (such as modified vowels and punctuations).

If you want to enter the next character,

- shortly press the on/off button (1).

In order to change the previous character,

- press the on/off button (1) for more than 2 seconds.

When you have finished the entry and wish to enter the name for another station, press the corresponding preset button. The entered values are stored automatically.

- Press the DSC button (5) to quit.

The entry of the station name can be cleared by memorizing another frequency on that preset button (press the preset button for a longer time). The display then shows the frequency of the newly stored station.

## Cassette operation

### Inserting/ejecting a cassette

- Switch the car radio on.
- Insert the cassette with track A or 1 facing upwards, but do not apply any force when doing so.

The cassette is played in the direction used last.

The display (20) a shows which track is played.

To eject the cassette, press the FR and FF button (11) simultaneously.

### Fast winding

#### Fast forward

- Press the FF button (11). At the end of the tape, the set switches to the other track (autoreverse).

#### Interrupt fast forward by

- pressing the FR button.

#### Fast rewind

- Press the FR button (11). At the end of the tape, the set switches to the other track.

#### Interrupt fast rewind

- by pressing the FF button.

## Manual tape selection

To play METAL or CrO<sub>2</sub> cassettes

- press MTL (8), "MTL" is shown in the display (20) k.

Press this button once again to switch off this function. "MTL" goes off in the display.

## Dolby-NR

This tape deck allows to play cassettes which have been recorded with or without Dolby-NR.

On cassettes recorded with Dolby-NR\* background hiss is much lower and dynamics are better.

To switch Dolby-NR on/off

- press the  rocker switch (7).

"B" lights in the display (20) h if Dolby-NR is switched on.

This function is switched off by pressing the rocker switch once again. "B" goes off in the display.

\* Noise reduction system manufactured under license from Dolby Laboratories. The word Dolby and the double D symbol are the trademarks of Dolby Laboratories.

## Track switching

- Automatically  
At the end of the tape, the car radio switches automatically to the other track. The other side of the cassette is played.
- Manually  
Press  (9).  
The other track of the cassette is played.  
The Display (20) a changes (TR1-PLAY  TR2-PLAY).

### Attention

**With stiff cassettes the tape deck may switch inadvertently from one track to the other. Should this happen, check the tape reel. Winding the cassette may prove helpful.**

## Skipping/repeating music tracks

CPS means Cassette Programme Scan and allows to skip and repeat music tracks on the cassette.

- Press CPS (13). CPS is shown in the display (20) m.

To skip a music track, that is, to activate fast forward until the beginning of the next track is reached,

- press the FF button (11) for fast forward.

Should you wish to play the track once again, that is, to activate fast rewind until the beginning of the current track is reached,

- press the FR button (11) (fast rewind).

You can repeat the previous track even if the next track is already played, but this is only possible within the first 8 seconds of the next track. As soon as fast forward or fast rewind is finished, the next or the previous music track is played.

The CPS system can be used only, if a pause of at least 3 seconds is left between the individual music tracks. Switch this function off by pressing the CPS button (13) once again. "CPS" goes off in the display (20) m.

## Listening to the radio during fast winding

with the **RM** button (**R**adio **M**onitor) (12). During fast winding (and CPS) the unit is usually muted. Nevertheless you can listen to the radio

- by pressing RM (12), "RM" is shown in the display (20) i.

As soon as fast winding starts, the set plays the programme of the tuned-in station. Switch this function off by pressing this rocker switch once again, "RM" goes off in the display.

## Switching between the audio sources

(Cassette → radio → CD → cassette) with the SRC (source) (14).

With the cassette inserted

- press the SRC (14).

The set switches from cassette operation to radio or CD mode.

When cassette mode was activated, the cassette tape is stopped. The tape head and the pinch rollers retract in order to protect the cassette and the tape deck (standby mode).

Switch back with the SRC (14).

## Cassette eject

- Press the FR and FF (11) simultaneously.

## Care Notes

We recommend C-60 and C-90 type tapes for use in any automobile tape player; to protect your tapes, store them in a cool place away from dirt, dust, or excessive temperatures above 50° Celsius. In order to ensure smooth tape operation, cold tapes should be allowed to heat up a bit before they are played. If dust collects on the audio head or the rubber roller, problems related to rough tape operation or poor sound quality may occur after approx. 100 hours of operation. For normal contamination, use a head-cleaning cassette to remove the dust; for more intensive contamination, use a cotton-wool tip soaked with alcohol. Never use hard tools!

## Traffic broadcast reception (ARI)

Certain FM stations broadcast local traffic messages from time to time. Besides various other advantages, the ARI system will make it easier for you to find these stations. Traffic information broadcasting stations can be identified from the ARI zone ident (20) n. The frequencies of regional ARI traffic information stations are indicated on the blue motor way signs.

### Adjusting the priority for ARI messages

By activating this function, all non-ARI stations will be muted. ARI can be switched on/off with the ARI button (18). If you wish to listen to traffic broadcast stations only,

- press the ARI button (18).

If the priority for ARI messages is adjusted, "ARI" is shown in the display (20) h.

If your set is tuned to a non-ARI station, the ARI alert will be released.

- Press the search tuning rocker switch  $\wedge/\vee$  (22) to tune to the next traffic broadcast station.

## The ARI alert

Precondition: ARI priority is switched on (ARI lights in the display  h).

If you leave the coverage area of the traffic broadcast station, making reception difficult, the ARI alert is released after about 30 seconds.

The ARI alert is released immediately, if a preset button is pressed on which a non-ARI station is stored.

### Switching off the ARI alert

- a) Tune in another station (with traffic broadcast) by
  - pressing the search tuning rocker switch or by
  - pressing a preset button on which an ARI station is stored.
- b) Switch off the ARI priority by
  - pressing the ARI button .

## Adjusting the volume of ARI messages and ARI alert

Should you wish to receive traffic information only, it is possible to reduce the volume either slightly or totally whilst maintaining reception of traffic messages. When a traffic message is broadcast, this one is automatically reproduced at the preset volume, although you have previously turned down the volume or switched over to cassette operation.

The preset volume for traffic messages can be adjusted in line with your particular requirements (e.g. having connected an amplifier or in case of a quiet or loud vehicle).

- Press DSC .
- The display  a shows ARI and a number between 1 and 9. Now you receive the programme with the adjusted volume.
- Use the rocker switch << >>  to correct your adjustment.

After the adjustment

- press DSC .

## ARI messages during cassette operation

This set allows you to listen to a cassette while maintaining reception of traffic messages.

When a traffic message is broadcast, cassette playback is stopped and the traffic message switched through.

Proceed as follows to activate this function:

- Use the ARI button  to switch on the ARI priority. "ARI" is shown in the display  h if the ARI priority is on.
- Tune to a traffic information station of your area.
- Insert the cassette into the cassette compartment. Now you can listen to cassette playback, which will be interrupted when a traffic message is broadcast.

## Automatic start of search tuning

When you leave the coverage area of the tuned in traffic broadcast station, making reception difficult, the set automatically tunes to another traffic information station when cassette operation is activated. During seek tuning the ARI alert sounds.

## Theft protection (KeyCard)

### Selecting the display colour

With DSC (5) the display colour can be changed from orange to green to adapt it to the dashboard lighting of your car.

To change the display, proceed as follows:

- Press DSC (5).
- Press the rocker switch  $\wedge/\vee$  (22) until "COLOUR" lights in the display.
- Press  $\ll \gg$  (23) to change the colour.
- Press DSC (5) to quit.

### Beep (after key operations)

This car radio can release a beep to confirm those key operations which require more than 2 seconds before the respective function is activated. This beep can be switched on or off.

For this, press the following buttons one after the other:

- DSC (5).
- Rocker switch  $\wedge/\vee$  (22) until the display (20) shows "BEEP ON" or "BEEP OFF".
- Press the rocker switch  $\ll \gg$  (23) to switch between "BEEP ON" and "BEEP OFF".
- Press DSC (5) to quit.

This car radio can be operated only with a KeyCard the code of which is stored in the set (see figure. page 3).

An unauthorized KeyCard is not accepted and the set cannot be put into operation.

If an incorrect KeyCard is inserted, "----" is shown in the display.

The car radio can no longer be operated. "CARD" flashes after about 10 seconds.

Remove that KeyCard, insert a correct one and switch the set off and on (1). The car radio is ready for operation.

However, if the four dashes appear again, a waiting time of 10 seconds is to be kept.

After the fourth erroneous input, the waiting time extends to 1 hour.

After another 16 incorrect attempts the car radio needs to be decoded by an authorized service location, however, presentation of the radio passport is a must. If the set is switched off during the waiting period, the waiting period commences anew after switching the set on.

### Optical indication as theft protection

When your vehicle is stationary, a light emitting diode can flash as optical warning.

Depending on how your car radio is connected, you can adjust one of the following three states with DSC (5).

- Press DSC (5).
- Press the rocker switch  $\wedge/\vee$  (22) until "LED" and a number is shown in the display:

LED 1 - The LED flashes, if the car radio is switched via the ignition.

LED 2 - The LED flashes, if the car radio is not switched via the ignition.

LED 0 - The LED diode does not flash.

- Select with  $\ll \gg$  (23).
- Press DSC (5) to quit.

# Appendix

## Technical data

### Amplifier

Output power : 2 x 26 W and 2 x 7 W max.  
output power

2 x 24 W and 2 x 6.5 W  
sine acc. to DIN 45324/  
3.1 at 2  $\Omega$

### FM:

Sensitivity: 0.9  $\mu$ V at 26 dB S/N ratio

Response: 35-16000 Hz (-3 dB)

Selectivity: >80 dB at  $\pm$  300 kHz  
>40 dB at  $\pm$  200 kHz

### Crosstalk

attenuation: >30 dB at 1 kHz

### Cassette

Response: 30-18000 Hz  
(-3 dB constant)

Wow/flutter: 0.25 % typ.

S/N ratio 64 dB typ. with Dolby B  
56 dB typ. without Dolby

**Aux-In:** Input impedance 10 k $\Omega$

**Preamp-Out:** Output impedance 150  $\Omega$

## What to do if your radio needs to be serviced

Whenever your radio fails to operate and needs to be repaired by an authorized service center, please do not forget to bring the radio passport and the KeyCard along with you.



**Blaupunkt-Werke GmbH**  
**Bosch Telecom**

MC/VKD-Hi 3 D93 147 005