Canberra RCM 85

Operating instructions

Blaupunkt
Bosch Gruppe
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Short instructions

1. On 🎧 Off 🎧

This unit can also be switched on and off with the Release Panel (9).
Also, when being connected correctly, you may turn the radio on and off via
the ignition of your car.
Use one of the following possibilities to continue operating the set when the
ignition is switched off:
   a) Switch on/off with knob 1.
   b) Remove/re-install the release panel.
   c) Press AUD 3.
When turning on the unit with the re-
lease panel or by pressing the AUD
button, the system will start to play with
the volume adjusted last.
When operating the unit with the igni-
tion being switched off, the system will
automatically shut down after one hour
in order to avoid that the battery goes flat.

2. LD
   Loudness - When listening at a low
   level, the Loudness function creates a
   more natural sound by boosting the low
   frequency range.
   To switch the Loudness on/off:
   Press LD.
   For more information, read chapter
   “DSC programming”.

3. AUD/GEO
   AUD –
   To adjust the treble and bass frequen-
cies with the rocker switch.
   Treble +
   Treble –
   Bass –
   Bass +
   GEO –
   To adjust the balance (left/right) and
   fader (front/rear) with the rocker switch.
   Fader front
   Fader rear
   Balance left
   Balance right

To alter a setting,
   • press AUD or GEO and then change
     the value with the rocker switch.
The adjusted value is indicated in the
display.
The last setting will be stored automatic-
ally.
To finish the setting: Press AUD or
GEO.
If the setting remains unchanged within
8 seconds, the display will switch back
to the previous condition.

4. DSC (Direct Software Control)
Use the DSC function to customise
 certain programmable, basic settings to
suit your personal needs and preferences. See chapter “DSC pro-
gramming” for more information.
AF - Alternative frequency during RDS operation
When “AF” lights up in the display, the radio will automatically search for a frequency offering better reception of the same RDS programme.
To switch AF on/off: Press AF briefly.

Extra function:
REG ON / REG OFF - With REG ON the system will only switch to a better alternative frequency if the latter belongs to a linked station offering the same regional programme (see “REG - regional programme”).
To switch REG on or off: Press AF until “REG ON” or “REG OFF” appears in the display (BEEP tone).

lo
To alter the automatic seek tuning sensitivity.
If lo is displayed, the radio will only pick up strong, local stations (low sensitivity).
If lo does not light up, the radio will also pick up weaker, distant stations (high sensitivity).
To switch over: Press lo briefly. For more information, see chapter “DSC programming”.

B/MTL
Dolby B-NR*
Press this button to play back a tape which has been recorded with Dolby-B. When this button is pressed, “B” lights up in the display.
* Noise Reduction system manufactured under license from Dolby Laboratories Licensing Corporation. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

MTL
Press when using metal or CrO2 tapes. “MTL” lights up in the display.

To switch the functions on or off: Press the B/MTL button during tape operation until the desired condition is displayed.

CPS
To repeat or skip cassette titles.
To switch the function on or off: Press CPS during tape operation.
The display shows the adjusted condition (“CPS ON/OFF”) each time the button is pressed.

Repeat titles: Press FR.
Skip titles: Press FF.

Cassette removal
Press ▲.

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

Display
Radio operation:
NDR1 NDS - Station abbreviation or frequency
FM - Waveband
T - Memory bank (I, II, T)
5 - Preset button (1 - 6)
1 - Stereo
lo - Seek tuning sensitivity
AF - Alternative RDS frequency
TP - Traffic programme identifier
TA - Priority for traffic programme stations
LD - Loudness
Tape operation:

TR1—PLAY - Side 1 (or 2)
MTL - Metal
B - Dolby B-NR

CD changer operation (optional):

CD 05 - Disc number
T 02 - Title number

Fast winding/PROG button

To switch to the other side of the cassette tape:
Press both buttons simultaneously.
The display shows TR1-PLAY or TR2-PLAY.

FR : Fast rewind; stop by pressing FF.
FF : Fast forward; stop by pressing FR.

13 SC/MIX
Radio operation
Scan (sampling all stations to be received): Press SC/MIX briefly.

Preset Scan (sampling all stations stored on the preset buttons): Press SC/MIX for approximately 2 seconds.

Changer operation (optional)
See chapter "CD changer control".

14 SRC (Source)
To switch between the available audio sources, e.g. tape, radio, CD changer (optional).

1, 2, 3, 4, 5, 6 - preset buttons
You can store six stations on each FM memory bank (I, II, T).

To store a station: Press button during radio operation and hold down until the radio resumes play.
To recall a station: Select the waveband and on FM also the desired memory bank (press FMT button as many times as required). Then press the corresponding preset button briefly.

Extra function:
Coding: Read chapter "Anti-theft protection" first.
Buttons 1, 2, 3, 4 - To enter the four-digit code.
Press each of the buttons as many times as required until the code number given in the car radio passport stands in the display.

15 TA (priority for traffic announcements)
If "TA" is displayed, the system will play traffic stations only.
TA on/off: Press button.

16 M-L
To select the MW or LW waveband.
Press button as many times until the desired band is adjusted.

17 FMT - FM, Travelstore
To switch between the FM memory banks I, II and "T" (Travelstore).
Important notes

Precautions

Before starting to use your new car radio, please read the information on “Traffic safety” and “Anti-theft protection” carefully.

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 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.

Installation/Connection

If you would like to install this equipment yourself or add any new components, please read the enclosed installation and connection instructions carefully.
Anti-theft protection

Release panel
This unit is equipped with a release panel (detachable face). You can remove the control face at the push of a button. For extra anti-theft protection, we recommend you to take the detachable face with you when leaving your car. Re-inserting the release panel is child’s play. The set will be ready for use immediately; you will find all the previous settings re-adjusted.

Detaching the release panel
• Press RELEASE.
The unit will be switched off automatically. The control panel will be released in order for you to detach it. Store it in a safe place, excluding possible damages.

Fitting the release panel
• Insert the panel on the left side first with the cassette slot facing up and then press on the right until it locks in.
The unit is now ready for use with the settings adjusted before removing the panel.

Security code
This car radio is supplied with inactive code protection. In order to switch the security coding system on, proceed as described in the following.
If the coding system is active while the power supply to the system is interrupted (e.g. theft, disconnection of the car battery), the set will be electronically blocked. In such a case it can only be made operable again by entering the correct code number given in the car radio passport.

Entry of a wrong code number
It should not be possible for a thief to find out the correct code number by trial and error. This is why the set will be blocked for a certain period of time after a wrong code number has been entered. The display will then show “CODE ERR”. After the first three unsuccessful attempts, the system will lock for 8 seconds; after further attempts, the waiting time extends to one hour.
Switching off security coding

- Turn off the radio.
- Press preset buttons 1 and 4 simultaneously and hold down while switching the set on again.
- The display shows "CODE".
- Now enter the code number to be found in the Blaupunkt car radio passport and confirm (see example under "Re-start ...").
- Security coding is now switched off.

Optical indication for extra security

To indicate that your unit is equipped with security coding, you may let an LED installed in the non-detachable part of the front panel flash for extra security when the car is stationary.

For this, the following requirements must be fulfilled:
-Permanent 12 V supply and the + ignition lead must be connected correctly (as illustrated in the installations instructions).
-LED 1 must be adjusted in the DSC mode. Read "DSC programming - CODE-LED".

Re-start following an interruption of the power supply

(coding system is activated)
- Turn on the radio.
- The display shows "CODE".
- Briefly press preset button 1; the display shows "0000".
- Enter the code number given in the Blaupunkt car radio passport:
  - Press preset button 1 twice; the display shows "2000".
  - Press preset button 2 five times; the display shows "2500".
  - Press preset button 3 twice; the display shows "2520".
  - Press preset button 4 once; the display shows "2521".
  - To confirm the code number: Press the upper part of the rocker switch A.

If you have entered the correct code, the unit will now be ready for use.

If the display shows "CODE ERR", you have entered a wrong code. Re-enter the correct code after the waiting time ("CODE" will appear in the display).

If you switch off the set while it is blocked, the waiting time will start anew as soon as the radio is turned on again.
Radio operation with RDS (Radio Data System)

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

More and more radio stations have begun to broadcast RDS information alongside 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).

When RDS is activated, the station 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 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 when “AF” appears in the display.

In order to switch this function on or off,
• press the AF button briefly.

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

If “SEARCH” appears in the display when switching on the radio or recalling 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 reception quality of the selected programme becomes too bad:
• Tune into another station.

**REG - regional programme**

Certain radio programmes are split up at times into regional programmes offering local information. The 1st programme broadcast by NDR, for example, offers programmes with different contents in the northern states of Germany Schleswig-Holstein, Hamburg and Lower Saxony at certain times of the day. If you are listening to one programme and move to an area where another linked regional programme becomes stronger, the unit will switch to that programme.

If you wish to continue listening to the first programme,
• press the AF button for approximately 2 seconds.

“REG ON” appears in the display.

If you leave the service area of the regional programme tuned into, or if you would like to take advantage of the full RDS service, switch to “REG OFF”.
• Press the AF button for approximately 2 seconds until “REG OFF” appears.

When active, “REG ON” will be briefly displayed each time the radio is switched on.

**Selecting a waveband**

With this car radio you can select between the following wavebands:

- **FM** 87.5 - 108 MHz
- **MW** 531 - 1602 kHz
- **LW** 153 - 279 kHz

• Select the desired waveband by pressing the FM or M-L button.

To switch between MW and LW:
• Press M-L.

**Automatic tuning ↨/V**

• Press ↨/V; the car radio will automatically search for the next station.

When keeping the upper or lower part ↨/V of the rocker switch depressed, seek tuning will speed up in upwards or downwards direction.
Automatic tuning

![Automatic tuning buttons]

- **Up**
- **Down**
- **<<)>>** Up/down in short intervals (**“AF”** must be switched off)
- **<<)>>** To scroll through the broadcasting network when **“AF”** is activated (e.g. NDR 1, 2, 3, 4, N-JOY (North German broadcaster)).

Manual tuning **<< >>**
(prerequisite: **AF** is switched off!)
- Press **<< >>**: the frequency will change in short intervals in downwards or upwards direction.
- When holding the right or left part of the rocker switch pressed down, the frequency scan is speeded up.

Scrolling through the broadcasting network (**only FM**)
You can use the **<< >>** buttons to tune in stations of your reception area.
If several programmes of one broadcasting network can be received, you can scroll through them in forwards direction pressing **>>, or backwards using the **<<** button, e.g. NDR 1, 2, 3, 4, N-JOY (North German broadcaster).
For this it is necessary that the stations have been received at least once and that **“AF”** has been activated before (lights up in the display).
For this purpose, you may start Travelstore seek operation:
- Press **FMT** for 2 seconds; the system starts to run through the frequency band.
If **“AF”** does not light up,
- press **AF**.
With this, the requirements for selecting stations with **<< >>** are fulfilled.

Changing the memory bank (**FM**) 
You can shift between the memory banks I, II and T in order to store stations and recall them later.
The currently selected memory bank is indicated in the display.
- Press the **FMT** button as many times until the desired memory bank lights up in the display.

Storing stations
On **FM**, you can store six stations on the preset buttons **1 to 6** for each of the memory banks I, II and T.
On MW/LW, you can store six stations each.
- Select the waveband with **FMT** or **M•L** and on **FM** also the desired memory bank (with **FMT**).
- Tune in a station with the rocker switch (either automatically or manually).
- Press the desired preset button until the radio resumes play after the muting (takes approximately 2 seconds, confirmed by beep).
Now the station has been stored.
The activated preset button is indicated in the display.
To select a station currently being scanned and switch off Preset Scan:
• Press SC/MIX briefly.

Automatically storing the strongest stations with Travelstore
You can automatically store the six 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 FM T button for more than 2 seconds.
The radio will search for the strongest FM stations and store them on the memory bank T (Travelstore). When this process has been completed, the radio will play the first station. 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 waveband by pressing FM T or M•L. On FM, also choose the corresponding memory bank by pressing the FM T button as many times until the desired bank appears in the display.
• Press the corresponding preset button briefly to recall the station.

Scanning stored stations with Preset Scan
You can have all of the stored stations played briefly on all wavebands. On FM, you can scan the stations of the Travelstore memory bank or of the two other storage levels.
• Select the waveband.
• On FM, choose Travelstore or another memory bank using the FM T button.

To start Preset Scan:
• Press SC/MIX for approximately 2 seconds.
The stations will be played for approximately 8 seconds each.
The positions blinking in the display show you the memory bank and preset position of the currently scanned station.

To select a station currently being scanned and switch off Preset Scan:
• Press SC/MIX briefly.

Scanning stations with Radio-Scan
Beginning with the station currently tuned in, you can scan the waveband. The radio will play each station for 8 seconds.

To start the scan:
• Press SC/MIX briefly.
The scanned frequency or the station name will start flashing in the display. During the actual scanning process “SCAN” will be displayed.

To select a station currently being scanned and switch off the scan function:
• Press SC/MIX briefly.
If no station is selected, the scan function will be automatically switched off after the frequency band has been run through completely. The unit will tune in the station listened to before starting the scan.

Notice:
Should you tune in a station which has already been stored before, the corresponding preset button and the memory bank will briefly flash in the display if you have selected another memory bank.

Automatically storing the strongest stations with Travelstore
You can automatically store the six 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 FM T button for more than 2 seconds.
The radio will search for the strongest FM stations and store them on the memory bank T (Travelstore). When this process has been completed, the radio will play the first station. 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 waveband by pressing FM T or M•L. On FM, also choose the corresponding memory bank by pressing the FM T button as many times until the desired bank appears in the display.
• Press the corresponding preset button briefly to recall the station.

Scanning stored stations with Preset Scan
You can have all of the stored stations played briefly on all wavebands. On FM, you can scan the stations of the Travelstore memory bank or of the two other storage levels.
• Select the waveband.
• On FM, choose Travelstore or another memory bank using the FM T button.

To start Preset Scan:
• Press SC/MIX for approximately 2 seconds.
The stations will be played for approximately 8 seconds each.
The positions blinking in the display show you the memory bank and preset position of the currently scanned station.

To select a station currently being scanned and switch off Preset Scan:
• Press SC/MIX briefly.

Scanning stations with Radio-Scan
Beginning with the station currently tuned in, you can scan the waveband. The radio will play each station for 8 seconds.

To start the scan:
• Press SC/MIX briefly.
The scanned frequency or the station name will start flashing in the display. During the actual scanning process “SCAN” will be displayed.

To select a station currently being scanned and switch off the scan function:
• Press SC/MIX briefly.
If no station is selected, the scan function will be automatically switched off after the frequency band has been run through completely. The unit will tune in the station listened to before starting the scan.
Receiving traffic programme stations with RDS-EON

Many FM broadcasters offer traffic messages for their service area at regular intervals. All traffic programme stations transmit a special carrier signal alongside their programmes, which is decoded by your car radio. If this signal is identified, “TP” will appear in the display (Traffic Programme).

Traffic announcement priority on/off
If the priority for traffic announcement programmes is activated, “TA” will light up in the display.

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

Switching the warning beep off
a) Tune into another station offering traffic information:
   • Press the rocker switch or
   • 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 leaving 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 warning beep will sound.

To switch the warning beep off, proceed as described above.

**Adjusting the volume for traffic announcements and the warning beep**

This volume was preset at the factory. You can alter the value using the DSC function (see “DSC programming, TA”).

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**Tape operation**

**Inserting a tape**

- Turn on the set.
- Insert a tape.

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

**Automatic seek tuning start**

The tape will be played in the direction used last.

“TR1-PLAY” in the display means that track 1 or A is being played.

**Removing a tape**

- Press △.

The cassette will eject.

**Fast Forward/Rewind**

**Fast Forward**

- Press FF.

At the end of a tape side, the mechanism changes directions automatically to play the other side.

**Stopping Fast Forward operation**

- Press FR.

**Fast Rewind**

- Press FR.

At the beginning of the tape, the mechanism will automatically start playback.

**Stopping Fast Rewind operation**

- Press FF.

To switch to the other tape side:

Press simultaneously.

TR1-PLAY or TR2-PLAY shown in the display.

**FR**: Fast rewind; stop by pressing FF.

**FF**: Fast forward; stop by pressing FR.

**PROG selector**

To change the tape direction during cassette playback

- Press FR and FF simultaneously.

At the end of a tape side, the mechanism changes directions automatically to play the other side (Autoreverse). The display shows “TR1-PLAY” for track (side) 1 or A or “TR2-PLAY” for track 2 or B.
**Notice:**
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.

**Dolby B-NR* and tape equalisation with B/MTL**

**Dolby B-NR***
With this unit you can play back tapes recorded with Dolby-B or without noise reduction. Cassette tapes recorded with Dolby NR* stand out by their much lower tape hiss and the improved dynamics.
If Dolby B-NR is switched on, “B” will light up in the display.

* Noise Reduction system manufactured under license from Dolby Laboratories Licensing Corporation. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

**MTL**
Switch on the MTL function to select the best equalisation response when using metal or CrO₂ tapes. “MTL” will light up in the display.

To switch Dolby B-NR and MTL on/off:
• Press B/MTL repeatedly until the desired setting appears in the display.

The system enables the following settings:

- **MTL tape**
  - with Dolby B-NR: MTL B
  - without Dolby B-NR: MTL –
- **Normal tape**
  - with Dolby B-NR: – B
  - without Dolby B-NR: – –

**Skipping/repeating titles with CPS**

CPS stands for Cassette Program Search. This function allows you to skip a cassette title or listen to it once again.

To switch the function on/off:
• Press CPS.
  “CPS ON” or “CPS OFF” will light up in the display for approximately 2 seconds.

With “CPS ON”:
**Press the FF button** -
The tape is fast forwarded to the next title.

**Press the FR button** -
The tape is rewound to the beginning of the current title, provided that it has already been played for more than 8 seconds. Otherwise the tape will be rewound to the beginning of the previous title.

**Switching the audio source with SRC (Source)**

Using this function you can switch between radio, tape and CD changer (optional) operation or playback of any other connected device.

To switch over:
• Press the SRC button.
DSC programming

DSC (Direct Software Control) allows you to customise certain programmable, basic settings to suit your personal needs and preferences and then store them. The basic settings for this audio equipment were made at the factory. In the following you can find an overview of these settings, so that you can always reset to these if desired. If you wish to alter any of the programming, press DSC.

The display will show you the adjusted condition.

Use the rocker switch to select and adjust the functions described in the following.

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCAL (lo)</td>
<td>To adjust the seek tuning sensitivity for local reception.</td>
</tr>
<tr>
<td></td>
<td>LOCAL 1 - high sensitivity</td>
</tr>
<tr>
<td></td>
<td>LOCAL 3 - low sensitivity</td>
</tr>
<tr>
<td>DIS (dx)</td>
<td>To adjust the seek tuning sensitivity for distant reception.</td>
</tr>
<tr>
<td></td>
<td>DIS. 1 - high sensitivity</td>
</tr>
<tr>
<td></td>
<td>DIS. 3 - low sensitivity</td>
</tr>
<tr>
<td>TIME ON/OFF</td>
<td>To select the display mode during CD changer operation (option).</td>
</tr>
<tr>
<td></td>
<td>TIME ON - display of title and playback time.</td>
</tr>
<tr>
<td></td>
<td>TIME OFF - display of CD and title number.</td>
</tr>
<tr>
<td></td>
<td>If SCAN or MIX is active, the system will always switch to the TIME OFF mode.</td>
</tr>
<tr>
<td>TA VOL</td>
<td>To adjust the traffic announcement volume from between 1 to 9. The message will then come through at this volume. (1 = low)</td>
</tr>
<tr>
<td>BEEP</td>
<td>Confirmation tone for all functions which require a button to be pressed for more than 2 seconds. The volume can be adjusted from between 0 to 9. (0 = off) Each alteration of this value is confirmed by a beep tone of the corresponding volume.</td>
</tr>
<tr>
<td>LED (code)</td>
<td>You can adjust the LED to flash for extra anti-theft protection.</td>
</tr>
<tr>
<td></td>
<td>LED 1 - LED always flashes when the unit has been switched off via the ignition.</td>
</tr>
<tr>
<td></td>
<td>LED 0 - No flashing.</td>
</tr>
<tr>
<td>LOUD</td>
<td>Loudness - When listening at a low level, the Loudness function creates a more natural sound by boosting the low frequency range.</td>
</tr>
<tr>
<td></td>
<td>LOUD 1 - Low boost</td>
</tr>
<tr>
<td></td>
<td>LOUD 6 - Max. boost</td>
</tr>
</tbody>
</table>
You can operate the Blaupunkt CD changer CDC-A05 in combination with this car radio.

**Selecting a disc/track using the rocker switch**

**Switching to changer operation with SRC on the car radio**

Make sure that a magazine is inserted. Press SRC to switch between the different audio sources (radio - changer - tape). Press SRC as many times until the changer functions appear in the display.

**Overview of the DSC factory settings**

- **LOCAL**: 1
- **DIS**: 1
- **TIME**: OFF
- **TA VOL**: 4
- **BEEP**: 3
- **LED (Code)**: 1
- **LOUD**: 4
- **RM**: OFF

The display shows you the selected mode.

**SCAN**

Use this function to scan the CD tracks. To start the SCAN:

- Press the SC/MIX button briefly. The tracks will be played briefly one after the other in ascending order. The number of the currently scanned track flashes in the display.
To stop the SCAN:
• Press the SC/MIX button briefly once again. The system will continue to play the currently scanned track.

MIX
Use the MIX function to play the tracks of the individual discs in random order. Note that the discs themselves will be selected in numeric order according to their position in the changer.

To start the MIX function:
• Press the SC/MIX button for approximately 4 seconds. The CD number and ‘MIX’ will appear in the display.

To stop the MIX function:
• Press SC/MIX briefly.

Notice:
In may happen in isolated cases that the changer fails to function properly due to voltage drops (e.g. when starting the engine). In such a case, briefly switch the car radio off and on again.
The changer will then return to normal operation.

Appendix

Care notes
Release panel
To ensure that the unit functions properly it is important that the contacts between the release panel and the head unit are free from any foreign particles.
If necessary, clean the contacts using a cotton swab soaked with alcohol.

Mechanism/cassette tapes
To avoid possible problems, you should not use cassette tapes longer than 60 or 90 minutes (C60/C90). 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) soaked with alcohol. Do not attempt to clean by inserting a hard object into the player!

Specifications
Amplifier
Output power: 4 x 19 W RMS power acc. to DIN 45324/3.1
or
4 x 20 W max. power acc. to DIN 45324/3.2

Tuner
Wavebands
FM : 87.5 – 108 MHz
MW : 531 – 1602 kHz
LW : 153 – 279 kHz

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

FM frequency response: 35 - 16 000 Hz

Tape player
Frequency response: 35 - 16 000 Hz

Subject to modifications!