Warning

Although the beam emitted by the laser diodes is nearly invisible, it may cause damage to the human eye. When the laser is being operated, the emitting surface must not be viewed either directly or through a lens, fiber or mirror.

Caution

The CD mechanism and many electronic components are extremely susceptible to electrostatic discharges. Careless handling may immediately destroy components or can drastically reduce life expectancy of these components so that it will lead to failure after several weeks or even months of use. Before you touch the player, discharge your hands and tools by touching a grounded metal part of the jukebox, such as the amplifier or the machine chassis. Do not touch terminals or electronic components.
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1 Unpacking

1.1 Unlocking

The key is stored in the coin return cup in the RH cabinet wall. The key WUA 1 unlocks the cabinet by turning the key clockwise. The lock is spring loaded, press slightly against the door, this allows the key to turn easily. The two other keys with 5 digit number codes unlock the cash box at the bottom of the RH cabinet wall. In this box the hand transmitter is located if an infrared remote control has been installed.

1.2 Removal of mechanism shipping guards

1. The mechanism platform is fixed to cabinet with one bolt in front LH side (1) and one bolt back RH side (1). Remove both completely using a 13mm spanner or a large screw driver. Possibly you can use the tool fixed to the lid of the gear box (2).

2. Remove plastic string at the pivot point of the pressure arm (3).

3. Remove plastic holder securing CD player chassis (4).


5. Remove foam between magnetic pressure disc and black plastic cover (8).
2  Loading compact discs

2.1  Removal of motor book shipping guards

Cut both plastic strings on both sides of the book (1).

Press push buttons (2) inside and turn down the book (3).

Remove elastic band from the motor book systems (4).

**IMPORTANT:** Save the removed shipping guards. You may need them if you decide to move your machine to another location.

2.2  Power on

**IMPORTANT:** Make sure that wall socket is grounded properly.

The CD-jukebox operates on normal household power outlet. Set mains switch at rear wall of cabinet to on position. If the selection and credit memory is empty the basket turns once and the left two digits show alternatly a "0". After a short time the display counts up to the carrier size in the two RH digits (50 or 00 for 100 discs). After this the basket stops in position "01". The digital display shows "0 0 0 0", then "0 0 0 1" when a basket with 100 CDs is used "0 1 0 1" for a 50 CD carrier.
2.3 CD handling precautions

Dust, fingerprints or other dirt on the disc surface can cause skipping, jumping or sticking problems.

Use only clean and undamaged CDs. Never touch the surface of a disc.

2.4 Inserting CDs

Insert up to 50 or 100 CDs, depending on the compartments in the carrier. Start with 01. The "Label" must show always to the left, towards the next lower number. To achieve the optimum position for loading, press in steps the lever "rotate carrier". If less than 50 (100) discs are used, the number of discs used has to be programmed in the service program level 1, button 5 (see chapter "Programming number of CDs in the carrier", see page 7).
ATTENTION! For carriers with 100 CDs the position ‘00’ is the 100th CD.

It is recommended to insert the Compact Disc and then the title page into the appropriate numerical slot position of the motor page system. The pages can be turned manually by hand without any damage to the motor drive. In some models the transparent dust cover of the record carrier has to be lifted up at the front, it will rest in this position.

IMPORTANT: After unpacking or if you turned the pages manually sometimes it seems that the motorbook does not turn properly. In this case turn the whole motorbook once forward and backward using the buttons.

It is necessary to reprogramme the number of CDs in the carrier if a number less than 50 or 100 discs are inserted to avoid the changer mechanism operating with empty compartments.

If the number of CDs is programmed correctly the display will flash when you select an empty compartment. A flashing display always indicates a wrong selection or not enough credit.

The number of CDs in the carrier has to be programmed in service level 1, selection button 5, described as follows.
2.5 Programming number of CDs in the carrier

At the rear wall inside the jukebox cabinet the Selection & Credit Computer is situated. Some units are equipped with a metal cover. In this case the slide switch "SERVICE" and the button "LT" are accessible through holes.

To programme the number of inserted CDs (service program, level 1):

1. Set the slide switch ‘service’ at the SCC-unit to ON.
2. Press ‘LT’ button.
3. Press selection button 5 -hold down- and press selection button R than release both buttons.
   Enter the number of inserted CDs (without BGM CDs) with two digits followed by 00, example: 50 for 50 discs (exception: 100. CDs = 00).

To check the new settings, press selection button 5 again.

Exit the service program:

1. Set the slide switch ‘service’ at the SCC unit to OFF.
2. Press ‘LT’ button.

☐  The changer starts an initialisation run. After this the jukebox is ready to operate.
3 Coin operation or free play?

Both coin operation or free play are adjustable at the “Selection & Credit Computer” unit. It is located at the rear wall inside the cabinet underneath the CD-player. Special jumpers (short wires, located in the accessory pack of the manual) are used to be set on the SCC-unit. As long as no jumper is set in row GP from 0 to F (free play) the jukebox works with coins only.

3.1 Coin operation

From factory the jukebox is set to coin operation. If you insert a certain number of coins according to the denomination label, the jukebox gives the credits or plays it is adjusted for. If you want to change the play prices you have to change the jumper settings on the SCC-unit. See examples in the accessory pack.

3.2 Free play

To set the jukebox to free play:

1. In case there are already jumpers in the rows GP and BS, notice their position (for later resetting to coin operation) and remove them.
2. Set a jumper from 0 to F (free play) in the row GP on the SCC unit.
3. Press ‘LT’ button.
4. Now one track is selectable without coin insertion.
5. In between two to six plays are selectable by setting an additional jumper in the row ‘BS’ (Bonus Step) from 0 to 2 or from 0 to 6.
6. Up to 47 tracks are pre-selectable by setting a jumper in the row ‘BS’ from 0 to 7.
3.3 Test credit

For repair and test purposes it is possible to give test credits. By touching the test credit button you get one credit also shown in the digital display. You can terminate un-used credits by pressing the LT button.

In jukeboxes with an electronical coin validator you can find the test credit button on the coin validator interface board.

In jukeboxes with mechanical coin validator the test credit button is mounted over the return lever inside.
4 Track selection

4.1 How to select a track

If credit exists or free play is set you can select tracks by means of the buttons 0 - 9 on the keyboard. First enter the number of the CD with two digits, then the track with two digits too.

Example: CD 2, track 9: Enter 0 - 2 - 0 - 9 (Exception: CD 100 = 00.)

4.2 The button R

You can delete wrongly entered numbers up to the third digit by means of the button R (Reset). But after having entered the fourth digit the jukebox stores and executes a selection. By pressing the button R the available credit will be displayed for a few seconds.

4.3 The display flashes

After entering the fourth digit of a selection the jukebox starts to search and play the selected CD immediately. If the display flashes the entered selection was not valid. Check:

- if credit is available or
- if the selection is higher then the programmed number of CDs in the carrier

If you select a higher track number than available on a CD the jukebox overcounts the tracks and starts at the beginning.

Example: CD 03 contains 17 tracks. But selected track is 0 - 3 - 1 - 9. The jukebox plays track 02 of CD 03.

A maximum of 25 tracks per CD can be selected!
4.4 I do not like this track - the button CANCEL

If you do not like a track you can cancel it by pressing the button 'CANCEL' at the rear side of the jukebox or at the remote control. The jukebox stops playing or plays the next track if a selection has already been made.

You can terminate all selections only by pressing the button LT on the SCC unit.

4.5 Albumplay - playing a whole CD

You can select a whole CD by entering the CD number followed by '00'. Condition is that 'Albumplay' is enabled and the SCC has either reached the fourth bonus level or free play is set.

How to programme 'Albumplay' (service level 2):

1. Set the slide switch 'service' at the SCC-unit to ON.
2. Press 'LT' button.
3. Press selection button 4 - hold it - and selection button R, release both buttons. Service program, level 2 is reached.
4. Press selection button 9 -hold down- and press selection button R. Release both buttons. Enter 01 to enable (or 00 to disable) 'Albumplay'.

To check, press selection button 9 again.

Exit the service program:

1. Set the slide switch 'service' at the SCC unit to OFF.
2. Press 'LT' button.

The changer starts an initialisation run. After this the jukebox is ready to operate.
5 Volume, sound and balance control - amplifier F91

ATTENTION! Depending on adjusted volume of the jukebox noise levels of more than 70 dB can be reached.

5.1 The control terminal at the rear

With the control terminal at the rear side of the jukebox the volume, treble, bass and balance can be controlled individually.

After power up or if no button has been pressed for approx. 5 sec or after the button PRESET has been pressed, the terminal stays in the mode "VOLUME". The LED "VOLUME" lights. In this mode you can control the volume by means of the buttons '+' and '-'.

One LED corresponds to each mode. All modes are accessible by pressing the ‘mode’ button. With the buttons '+' and '-' treble, bass or balance can be controlled.

The control terminal can be taken out and be used as a wired remote control.

The meanings of the buttons...

- MODE: Switches to the next operating mode. After about 5 seconds without operating any buttons, ‘volume’ mode is resumed.
- PRESET: Volume, bass, treble, and balance are set to the pre-set according to DIP switch setting. Actual mode is set to ‘Volume’.
- CANCEL: Rejects a playing track. If album play is selected the next track will be played.
- MUTE: As long as this button is activated, the amplifier output is muted.
5.2 The infrared remote control

As desired an infrared remote control will be installed from factory or can be delivered as conversion kit (part no. 0040435). If it has been installed the hand transmitter is located in the cashbox.

If credit is given or free play is programmed a CD can be selected with the buttons 0 to 9 and R.

Double button functions as required in the service programs (i.e. press button 5 -hold down- and press button R), are impossible. For this you can use the keyboard of the jukebox only.

The meanings of the music control buttons are according to the buttons on the control terminal on the rear side of the jukebox (ref. to the prev. chapter).

The receiver eye of the infrared remote control is located behind the hole between the design elements on top of the front door. Beam this point directly if possible.

The common control terminal can be connected besides. It can be mounted outside to display the actual mode.

Batteries will be delivered. To open the battery compartment move the cover as shown in the picture.

The required battery type and position of the batteries in the hand transmitter are shown on the casing.

Part no. of the hand transmitter: 0040443.
5.3 Pre-settings for volume

After power on of the jukebox or after pressing the button ‘preset’ the values of volume, bass and treble reach the values set by the DIP switches. You can set the basic values for volume in 63 steps from zero up to maximum volume. At the amplifier front side, opening “Volume”, there are 6 DIP-switches for each channel. These switches have different values (1, 2 ... to 32). If you add all the values of the switches in position “ON” you will get the value for the set volume. Consequently the switches 32 and 16 give a coarse adjustment whilst the lower numbers may be used for fine adjustment. You can find the recommended settings on the amplifier cover.

**IMPORTANT:** If all switches are in position OFF no volume, if all switches are in position ON, the maximum volume appears at power on!

5.4 Pre-settings for bass and treble

Similarly the values for bass and treble can be set. Both channels should be adjusted the same.

Three DIP-switches with the values 1, 2, 4 are provided for each bass and treble. You can choose 7 different steps from minimum to maximum. Adding all switches set to "ON" gets the set value.

The recommended factory settings are printed on the amplifier cover.

*If you change the DIP-switch settings while the jukebox operates remember that the new settings will only take effect after having pressed the button ‘PRESET’ at the control terminal.*
6 Volume, sound and balance control - amplifier  K99

6.1 Volume control

You can control the volume of the jukebox from different points at the same time:

1. With the pots Vol.1 and Vol.2 on the amplifier.
2. With an optional connectable IR remote control.
3. With the pots of the control box at the rear side of the jukebox.

The device from which the volume is altered last determines it.

The volume control unit can be taken out and may be mounted at another place as a remote control. Its cable may be extended as required with any kind of wire. The voltages of the control wires are 5V DC.

The control box has two volume knobs (Intern / Channel 1 and Extern / Channel 2). In position "Stereo" the knob “Intern / Channel 1" is effective for the internal speakers. The knob Extern / Channel 2 is controlling the volume of the RCA outputs for an optional external amplifier. In position "2 Channel" of the DIP switch the channels1 (RH) and 2 (LH) are controllable separately.

The pots Vol. 1 and Vol. 2 on the amplifier are not effective if the wire control box is connected.
6.2 The infrared remote control

As desired an infrared remote control will be installed from factory or can be delivered as conversion kit (part no. 0058809). If it has been installed the hand transmitter is located in the cashbox.

If credit is given or free play is programmed a CD can be selected with the buttons 0 to 9 and R.

Double button functions as required in the service programs (i.e. press button 5 -hold down- and press button R), are impossible. For this you only can use the keyboard of the jukebox.

You can control the volume by means of the buttons + and -. In stereo mode the internal +/- buttons control the volume of the internal speakers. The external +/- buttons control the volume of the K99 RCA jacks for an optional external amplifier. In 2-channel mode you can control the external speakers by the buttons + and - of the external channel.

Beam the jukebox directly if possible.

You can connect the wire remote control box as well.

The power-on volume level is always set by the channel 1 and 2 pots on the amplifier or on the control box (if connected).

Batteries will be delivered. To open the battery compartment move the cover like shown in the picture.

Needed battery type and position of the batteries in the hand transmitter are shown on the casing.

Part no. of the hand transmitter: 0059745.
6.3 Treble and bass control

You can control the sound with the knobs bass and treble on the amplifier.

6.4 Automatic volume correction

The AVC sets CDs with different volume levels to an equal level. The level of CDs with a high level will be reduced; the level of low-levelled CDs will be increased. This control works rather slow to save the dynamic range of the track.

You can enable the correction with the DIP switch “AVC” the 3rd switch of the 6 switch group. Default is AVC disabled.

With the second DIP of the 6 switch group you can reduce the intensity of volume correction.
6.5 External amplifier connection

On the RCA terminals “Ausgang - Output” you can connect an external amplifier with any power rate. In Stereo mode the output level is normally controlled by means of the pot for the 2nd channel. Alternatively you can set the first DIP switch of the 6 switch group to ON to couple this output to the normal volume control knobs (1st channel), so that both amplifiers can be controlled together.

Connecting an external amplifier in 2-channel mode is not useful.

To avoid hum- (earth-) loops try to use an external amplifier with ground insulation; it has no earth contacts. If it is impossible (e.g. receivers with cable supply) you can separate both amps by means of the ground isolator part no. 0053300.

The signal of the RCA terminals is also controlled by the settings of bass, treble, BGM, AVC and Mute.
6.6 Position of fuses and plug connectors on the K99

Usually the jukeboxes are fitted with fuses of DIN 41571 (5x20 mm) slow blow or medium blow. Slow blow fuses of DIN standard bear the letter T (T = "Träge") e.g. T 4/250 means T = slow blow, 4 amps, 250 V maximum operating voltage. Which fuses have to fit in where is printed on the power transformer cover. Fast blow fuses (F = Flink) are unsuitable for the jukebox.

The fuse holder on the amplifier P.C.B. are capable to hold also fuses of 6x32 mm size.

You will find the fuses behind the amplifier cover plate. To remove the plate unplug first the cable coming from the mains transformer. Next lose slightly both nuts on top of the amplifier accessible through the holes in the cover plate (arrows). To remove the plate first take the bottom side out of its hinges and then the top side.

Connection plan of the plug terminals:

1P09 - mechanism, SCC unit
1P06A - option
1P06B - option
2LP04 - external speakers, LH
2P04 - external speakers, ground
2RP04 - external speakers, RH
2P12 - internal speakers
1P04 - CD sub transformer, CD player
1P03 - bubble tubes
6.7 **External speaker connection**

The amplifier can operate in two different modes. The normal operation mode reproduces the music in normal stereo sound. So external speakers can be added to each channel.

The so-called 2Channel mode uses both stereo channels like separate mono amplifiers so that the sound can be reproduced in different rooms but then in mono only.

The amplifier may not be loaded with more than 4 ohms per channel (less ohms means more load!). On an overload it switches itself off. After a certain cool down time it switches itself on. So if you do not eliminate the reason for the overload the amplifier produces continuously volume dropouts.
The impedance of all external speakers per channel in "Stereo" mode should not be less than 8 ohms, because the cabinet speakers represent a load of already 8 ohms per channel. If the amplifier is operating in 2-Channel mode, the internal speakers are all loaded to the RH channel (Channel 1); the LH channel (Channel 2) now applying to the screw terminals "Externer Lautsprecher - Externe speakers" may be loaded with max. 4 ohms.

The amplifier applies approx. 55 watts (rms on max. 0.1% dist.) on a 4 ohms speaker per channel, 18 watts to a 12 ohms speaker and approx. 9 watts to a 24 ohms speaker. That means, that e.g., a 12 ohms speaker connected to the external channel at Dual Channel operation must be a type of at least 18 watts, otherwise the speaker is in danger of destruction at higher volumes. Note that speaker groups like in hi-fi boxes may have, at certain frequencies, impedance’s much lower than their rating. Make sure that all speakers are connected in correct polarity.
Connect external speakers to the screw terminals on the LH amplifier side.

In Stereo mode do not connect speakers with less than 8 ohms to each channel.

Two speakers of 4ohms also represent total impedance of 8 ohms.

6.8 Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>100V - 240V</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>50Hz - 60Hz</td>
</tr>
<tr>
<td>Input voltage CD</td>
<td>typ. 1,2 V</td>
</tr>
<tr>
<td>Input voltage tape</td>
<td>300 mV</td>
</tr>
<tr>
<td>Ausgangsspannung Vorverstärker:</td>
<td>&lt;= 1Veff</td>
</tr>
<tr>
<td>Output power</td>
<td>2 x 55W (rms)</td>
</tr>
<tr>
<td>Output impedance</td>
<td>min. 4 Ohm</td>
</tr>
<tr>
<td>Transmission range</td>
<td>20Hz - 20000Hz</td>
</tr>
<tr>
<td>Distortion factor</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Noise level</td>
<td>depending on the adjusted volume of the jukebox loudness levels of more than 70 dB (A) can be reached</td>
</tr>
</tbody>
</table>
7 The internal clock

It is necessary to programme the time, date and weekday once or at least to control these settings. Only then can the jukebox switch on and off the Playstimulator or the Back Ground Music at the desired time. It is useful to programme time, date and weekday in a single pass.

7.1 Clock setting

To programme the time (and also the date) (service program, level 2):

1. Set the slide switch ‘service’ at the SCC-unit to ON.
2. Press ‘LT’ button.
3. Press selection button 4 -hold down- and press selection button R than release both buttons. Service level 2 is reached.
4. Press selection button 0. The display shows the current time.

If the displayed time is not correct:
Press selection button 0 -hold down- and press selection button R. Release both buttons. Enter the right time with four digits.

ATTENTION! Do not press selection button R after reprogramming, otherwise you will get back to service level 1!

7.2 Set date

Press selection button 1. The display shows the current date.

If the displayed date is not correct:
Press selection button 1 -hold down- and press selection button R. Release both buttons. Enter the right date with four digits.
7.3 Set year and weekday

To display the year and the weekday press selection button 2:

The weekdays are assigned to numbers as shown.

- 0 = Sunday
- 1 = Monday
- 2 = Tuesday
- 3 = Wednesday
- 4 = Thursday
- 5 = Friday
- 6 = Saturday

To programme press selection button 2 -hold down- and press selection button R. Release both buttons. Enter the right year with two digits, then enter a '0' followed by the number of the weekday.

Exit the service program:

1. Set the slide switch ‘service’ at the SCC unit to OFF.
2. Press ‘LT’ button.

✓ The changer starts an initialisation run. After this the jukebox is ready to operate.
8 Automatic random select (Playstimulator)

If the Playstimulator is programmed the jukebox plays random tracks of the CDs in carrier registered in the service program level 1, button 5. CDs declared as BGM CDs (ref. to the next chapter) will not be used! The time between the last track played by inserted money and the first random track of the Playstimulator is programmable from 1 up to 98 min. This time is also the repeat time between two random plays. The volume is the same as in normal operation. The Playstimulator will be interrupted immediately when a selection is made and restarts after having played the selected track(s).

By means of an optional switch you can also switch the box to CONTINUOUS PLAY MODE without any need to enter the service program. Part number of this switch is 0034410. It has to be connected to P8 of the SCC unit. (This switch is standard for all One More Time CD).

The Playstimulator only works:

- if Back Ground Music is not activated at the same time
- if time is programmed correctly
- if no credit left

Repeat time programming

To programme the repeat time for the Playstimulator (service program level 1):

1. Set the slide switch ‘service’ at the SCC-unit to ON.
2. Press ‘LT’ button.
3. Make sure that all time details are programmed properly otherwise you have to reprogramme (see chapter ‘The internal clock’)
   - Both LH digits show the number of CDs in the carrier, this number has to be indentical with the real number. Both RH digits show whether Playstimulator is enabled (01-99) or disabled (00). The numbers 01 up to 98 show repeat time between two random tracks in minutes, 99 means continuous play without any break.
A = number of CDs in the carrier (00 = 100)
B = repeat time programmed to 10 minutes

A = 50 CDs in carrier
B = no random plays

A = 63 CDs in carrier
B = Playstimulator on, continuous play

5. Note the number of CDs in carrier.
6. Press selection button 5 -hold it- and press selection button R. Display goes dark. Enter the noted number of CDs in carrier and Playstimulator interval time (or '00' for Playstimulator OFF or '99' for continuous play) with four digits.

8.1 Programming start and stop time

If start and stop time is programmed the jukebox only plays random tracks in this time period.

You can not programme the Playstimulator over 24.00 o'clock (e.g. 23.00 to 2.00 o'clock)!

Call up service program 2 by pressing the slide switch on SCC unit to position ON, press button LT, then press button 4 -hold it- and press selection button R. Then
Programming start and stop time

press selection button 8. The display shows at first a flashing '1'. This means 'start time'.

Then the time will be displayed, here 14.05 o’clock (2.05 p.m.).

Press selection button 8 once again. Now the display shows a flashing '2'. This means 'stop time'.

Then the time will be displayed, here 18.30 o’clock (6.30 p.m.).

To reprogramme press selection button 8 - hold - and press selection button R. Release both buttons. The digital display goes dark. Enter the start and stop time with eight digits.

Example: The jukebox should play random tracks from 09.00 in the morning to 17.00 in the afternoon.

Enter: 0 - 9 - 0 - 0 - 1 - 7 - 0 - 0

start time stop time

To check the start time: press selection button 8. To check the stop time: press selection button 8 again.

If the Playstimulator does not work. Check if:

• the clock is set correctly?
• start and stop time is programmed?
• repeat time is set correctly (not 0)?
• BGM play mode is disabled (ref. to next chapter).
• credits are still in memory. Display the remaining credits by pressing button R. If so, delete with button LT.
Exit the service program:
1. Set the slide switch 'service' at the SCC unit to OFF.
2. Press ‘LT’ button.

☑ The changer starts an initialisation run. After this the jukebox is ready to operate.

9 Back Ground Music (BGM)

If BGM is programmed and activated a random track from the CDs declared for BGM will be played. The time between the last selected played track and the first BGM track is programmable between 1 and 98 minutes. This time is also the repeat time between two BGM tracks.

The volume by BGM reproduction is reduced compared to the normal volume. It is adjustable with the two BGM pots (RH channel / LH channel) on the amplifiers F91 and K99. BGM mode is active when the relevant LED lights. Once the BGM mode is activated it is not possible to operate the Playstimulator.

If a selection is made by means of coin insertion the track being played will be interrupted immediately. Two intervals can be programmed for each weekday.
To enable BGM (service program, level 3):

1. Set the slide switch ‘service’ at the SCC-unit to ON.
2. Press ‘LT’ button.
3. Press selection button 4 -hold down- and press selection button R then release both buttons.
4. Press selection button 5. Service level 3 is reached. The display is dark. At this level all BGM options can be checked and/or programmed.

For the K99 amplifier the reproduction loudness will be reduced by a certain factor in the BGM (Back Ground Music) mode.

You also can switch “BGM” on by means of the DIP switch “BGM" for test purposes. The RH bottom segment of the status display on the amplifier indicates “BGM active”. You can adjust the volume attenuation with the pot “BGM”, as long it is active.

9.1 Number of BGM CDs and repeat time

Press selection button 7, the display shows e.g.:

A = number of BGM CDs; disabled for Playstimulator
BGM OFF = 00.

B = Repeat time between the single BGM tracks (10 min.)
BGM-continuous play = 00

To programme press selection button 7 -hold down- and press selection button R. Release both buttons. The display goes dark. Enter the number of CDs and the repeat time with 4 digits.

Example:
5 CDs reserved for BGM, repeat time 10 min.
9.2 Start position for BGM CDs and configuration

Press button 8. The start position of the BGM CDs is displayed in the left two digits. The RH digits indicate whether BGM CDs can be selected over coin insertion or not.

A = start position of BGM CDs (01 = factory pre-setting)

B = 00 - BGM CDs can be selected
B = 01 - BGM CDs can NOT be selected

After entering this data the SCC unit calculates the BGM end position itself. For loading of BGM discs the end position can be calculated as follows:

end position = start position + number of BGM CDs - 1

To reprogramme press selection button 8 - hold - and press selection button R. The digital display goes dark. Enter start position and the selection option with 4 digits!

9.3 BGM time zones at different weekdays

You can programme each weekday differently with two intervals per day. The following steps are the same for the buttons 1 to 6 in service level 3 according to the table for weekdays..

0 = Sunday       4 = Thursday
1 = Monday       5 = Friday
2 = Tuesday       6 = Saturday
3 = Wednesday

1. Press button 0, the display shows flashing:
   ⇒ 0 (LH) = Sunday
   ⇒ 1 means start time one,

   then the time will be displayed, here 9.00 o’clock.
2. Press selection button 0 again, the display shows flashing:
   ⇒ 0 (LH) = Sunday
   ⇒ 2 means stop time one,
   then the time will be displayed, here 12.30 o’clock.

3. Press selection button 0 again, the display shows flashing:
   ⇒ 0 (LH) = Sunday
   ⇒ 3 means start time two,
   then the time will be displayed, here 20.00 o’clock.

4. Press selection button 0 again, the display shows flashing:
   ⇒ 0 (LH) = Sunday
   ⇒ 4 means stop time two,
   then the time will be displayed, here 23.45 o’clock.

**To programme** press selection button 0 (or button 1 - 6 depending on the weekday to be programmed), hold it and press selection button R. The digital display goes dark. Enter the two time zones in four blocks containing four digits per block one after the other (16 digits).
Examples:
The jukebox should play BGM on Tuesday from 9.30 to 11.45 and from 17.00 to 19.55. To programme press selection button 2 - hold - and press selection button R. The digital display goes dark.

Then enter 0-9-3-0-1-1-4-5-1-7-0-0-1-9-5-5.

If the jukebox should play BGM on Wednesday from 17.00 to 19.55 only, then programme selection button 3 as described: 1-7-0-0-1-9-5-5-0-0-0-0-0-0-0-0-0. The second time zone has to be filled with zeros. Also this programming is possible:

0-0-0-0-0-0-0-0-1-7-0-0-1-9-5-5.

Repeat this procedure until all weekdays are programmed (selection buttons 0 to 6).

Exit the service program:
1. Set the slide switch ‘service’ at the SCC unit to OFF.
2. Press ‘LT’ button.
   ✓ The changer starts an initialisation run. After this the jukebox is ready to operate.
10  Further programming options

10.1  Number of tracks played successively on the same disc

The display shows the maximum number of tracks played successively from the same disc if more tracks have been selected. Preset value = 04 tracks, i.e. after four tracks from this CD it will be taken back to the carrier, and the next CD stored in the selection memory will be played. If selections for the previous CD still exist, they will be played later.

This option to limit the tracks played from one CD is more useful for operators. For individual use this value can be set up to 25.

To change this value (service program, level 2) :

1.  Set the slide switch ‘service’ at the SCC-unit to ON.
2.  Press ‘LT’ button.
3.  Press selection button 4 -hold down- and press selection button R than release both buttons. Service level 2 is reached. Display is dark.
4.  Press selection button 3, the display shows e.g.:

        ⇒ 04 is factory pre-set for number of tracks played successively on the same disc.

To programme press selection button 3 - hold - and press selection button R. The digital display goes dark. Enter the desired setting by means of the selection buttons with two digits.

Possible settings: 01 - 25. If you set this value to 01 all selections will be played in selection order.

To check the settings: Press selection button 3 again.

Exit the service program:

1.  Set the slide switch ‘service’ at the SCC unit to OFF.
2.  Press ‘LT’ button.

☑  The changer starts an initialisation run. After this the jukebox is ready to operate.
10.2 **Selective disabling of tracks**

You can disable up to maximum 25 different tracks of different CDs. If somebody selects a disabled track the digital display flashes. This indicates that this track is not selectable.

**To disable tracks (service program, level 2):**

1. Set the slide switch ‘service’ at the SCC-unit to ON.
2. Press ‘LT’ button.
3. Press selection button 4 -hold down- and press selection button R then release both buttons. Service level 2 is reached. Display is dark
4. Press selection button 4, the display shows e.g.:
   - A = CD number
   - B = track number

Each operation of selection button 4 shows the next disabled track, maximum 25 tracks. After having reached the last disabled track, the first one is displayed again. If the display shows 0000 after the first button operation no track is disabled.

**To programme:**

1. Press selection button 4 and selection button R at the same time. The digital display goes dark.
2. Enter first the number of the CD to be disabled followed by the track (total four digits).
3. To disable the next CD/track, press selection button 4 as often as display shows 0 0 0 0 .
4. Press selection button 4 again - hold - and press selection button R. The digital display goes dark. Then enter CD and track to be disabled.
5. Continue programming for the next track with step c.

**To enable a disabled track:** When a track is displayed, press button 4 - hold - and press selection button R and enter first the number of the CD followed by 0 0. To enable all disabled tracks enter 0 0 0 0 (4 times 0).
10.3 Selection and credit memory reset by power off

The function memory reset will cancel remaining credits and selections by power OFF of the jukebox.

**To enable this function (service program, level 2):**

1. Set the slide switch ‘service’ at the SCC-unit to ON.
2. Press ‘LT’ button.
3. Press selection button 4 -hold down- and press selection button R then release both buttons. Service level 2 is reached.
4. Press selection button 9, the display shows e.g.:
   - A = digit for memory reset by power off
   - B = digit for albumplay

This function has to be programmed with "Albumplay" (ref. to chap. Track selection). A programmed '0' disables the function, a '1' enables it.

**To programme** press selection button 9 - hold - and press selection button R. The digital display goes dark. Enter the desired setting by means of the selection buttons with 2 digits.

To check, press selection button 9 again.

**Exit the service program:**

1. Set the slide switch ‘service’ at the SCC unit to OFF.
2. Press ‘LT’ button.

✔️ The changer starts an initialisation run. After this the jukebox is ready to operate.
11  Player and CD cleaning

Dust, fingerprints or other dirt on the disc surface can cause skipping, jumping or sticking problems. Because of this never touch the surface of a disc! However it is rather easy to remove nicotine, dust or fingerprints.

11.1 Nicotine, dust, fingerprints

Dust can be removed with a lintfree soft cloth. If necessary, remove heavy dirt or fingerprints with a moistened soft cloth soaked in a solution of water and a detergent. Never use record cleaning sprays or anti static sprays! Furthermore, do not use other types of cleaners containing benzene, thinner or other solvents. These liquids will cause damage to the surface of discs. Move the cloth from the inside towards the outside and not in circular motion.

11.2 Removing scratches

Use a soft cloth and a soft polish.

11.3 Laser lens cleaning

Smoke and dust soil the lens. It can be cleaned with a cue-tip soaked in a detergent (i.e. Kodak lens cleaner, available under part no. 0051735 or 25% Isopropanol IPA). Place the tip on the lens and press down carefully.

Caution! The whole laser unit is very sensitive!

1. Move the cue-tip only in the direction shown in the picture so that the lens cannot move.

2. Do not scratch the special treated surface of the lens.

3. The cleaning solution must not run into the focus unit.

4. Keep away metal parts from the lens unit. A strong magnet is located underneath the lens. It attracts also small metal parts and this can block the complete unit.
## 12 Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>110 - 240 Volt</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height 152.0 cm, Width 81.5 cm, Depth 64.0 cm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>157.0 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th><strong>amplifier F91</strong></th>
<th><strong>amplifier K99</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>100 - 240 V</td>
<td>100 - 240 V</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>in standby: 146 Watt</td>
<td>in standby: 146 Watt</td>
</tr>
<tr>
<td></td>
<td>Max. 540 Watt</td>
<td>Max. 205 Watt</td>
</tr>
<tr>
<td><strong>Mains frequency</strong></td>
<td>50 - 60 cps</td>
<td>50 - 60 cps</td>
</tr>
<tr>
<td><strong>Input voltage CD</strong></td>
<td>typ. 1.2 V</td>
<td>typ. 1.2 V</td>
</tr>
<tr>
<td><strong>Input voltage tape</strong></td>
<td>300 mV</td>
<td>300 mV</td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>2 x 170 W rms</td>
<td>2 x 55 W rms</td>
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<tr>
<td><strong>Output impedance</strong></td>
<td>min. 4 Ohm</td>
<td>min. 4 Ohm</td>
</tr>
<tr>
<td><strong>Transmission range</strong></td>
<td>20 - 20000 cps</td>
<td>20 - 20000 cps</td>
</tr>
<tr>
<td><strong>Distortion factor</strong></td>
<td>&lt; 1 %</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td><strong>Noise level</strong></td>
<td>depending on the adjusted volume of the jukebox loudness levels of more than 70db(A) can be reached</td>
<td></td>
</tr>
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</table>
## Declaration of Conformity

<table>
<thead>
<tr>
<th>Konformitätserklärung – Declaration of Conformity – Déclaration de Conformité</th>
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<tr>
<td><strong>Geräteart:</strong> Musikbox</td>
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<tr>
<td><strong>Typenbezeichnung:</strong> OMT CD</td>
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<tr>
<td><strong>Model No.:</strong> OMT CD</td>
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<td><strong>Angewandte EG-Richtlinien:</strong></td>
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<td><strong>Directives Complied with:</strong></td>
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<td>73/23/EEC Niederspannungsrichtlinie</td>
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<td>89/336/EEC Elektromagnetische Verträglichkeit</td>
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<td>EN 50081-1 Elektromagnetische Verträglichkeit</td>
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<td>EN 60335-75 Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke</td>
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<td>EN 550022 Grenzwerte und Messverfahren für Funkstörungen von informationstechnischen Einrichtungen</td>
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<td><strong>Gedruckter Name/Print name/nom</strong></td>
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<tr>
<td>Jürgen Obermeier</td>
</tr>
<tr>
<td><strong>Position/Position/Position</strong></td>
</tr>
<tr>
<td>Chief Engineer/Technischer Leiter/Directeur Technique</td>
</tr>
<tr>
<td><strong>Datum/Date/Date</strong></td>
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