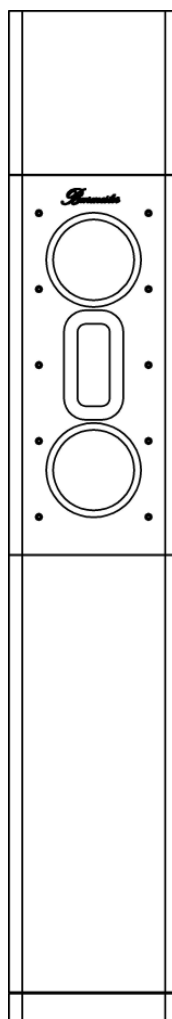


OWNER'S MANUAL

REFERENCE LOUDSPEAKERS

B 100



Burmester
ART FOR THE EAR
HIGH END MADE IN GERMANY

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Dear Audiophile,

Thank you for choosing this Burmester audio component. We sincerely appreciate your trust in us.

You have purchased a loudspeaker which excels in musical fidelity and combines uncompromising manufacturing quality with technical innovation and the highest degree of operating flexibility. This speaker is capable of filling even large spaces with dynamic sound. To sound its best and to avoid clipping, it should be driven by a power amplifier of the highest quality.

We recommend reading this user manual at least once in its entirety before setting up the speaker for the first time. This will enable you to make full use of all capabilities of this outstanding audiophile instrument. Should you have any further questions, please contact your dealer or us directly.

You decide if we meet the demands of producing high-end components. We offer an additional service which also demonstrates high-end quality.

Talk to us about your special requests, even if they seem out of the ordinary. We happily accept technically reasonable challenges.

Enjoy your enhanced listening pleasure.

Your Burmester Team

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UNPACKING

PLEASE NOTE: The loudspeakers B 100 weigh 128kg (281.6lbs) each. To avoid injury during unpacking and set-up, this should only be done by persons who are accustomed to handling such weights. The loudspeakers B 100 are delivered wrapped in plastic bags. Keep these bags away from children to avoid danger of suffocation.

Unpacking

To avoid damaging of the loudspeaker's housing or drivers please do not use sharp or spiky objects for opening the packing case. Please check the completeness of delivery. If you miss something from the list below or should you discover damages to the loudspeaker upon unpacking, please do not connect the loudspeaker but contact your authorized dealer.

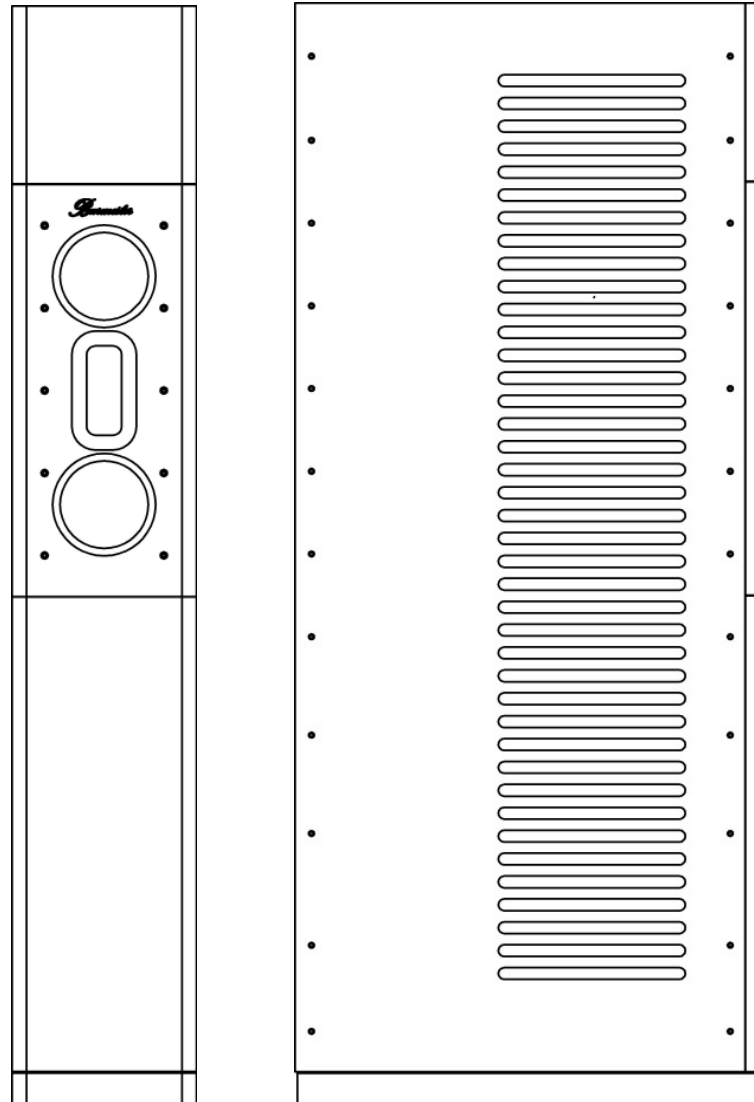
Contents of delivery

The shipping carton contains:

- 2 packing cartons with the loudspeakers B 100
- 2x2 BI-WIRING BRIDGES (connected at speaker terminals)
- 2x1 CIRCUIT BRIDGE (connected at speaker terminals)
- 8 spikes with screw nuts
- 1 owner's manual

We recommend keeping the original packaging material in case of a move or future shipping.

VIEWS OF LOUDSPEAKER



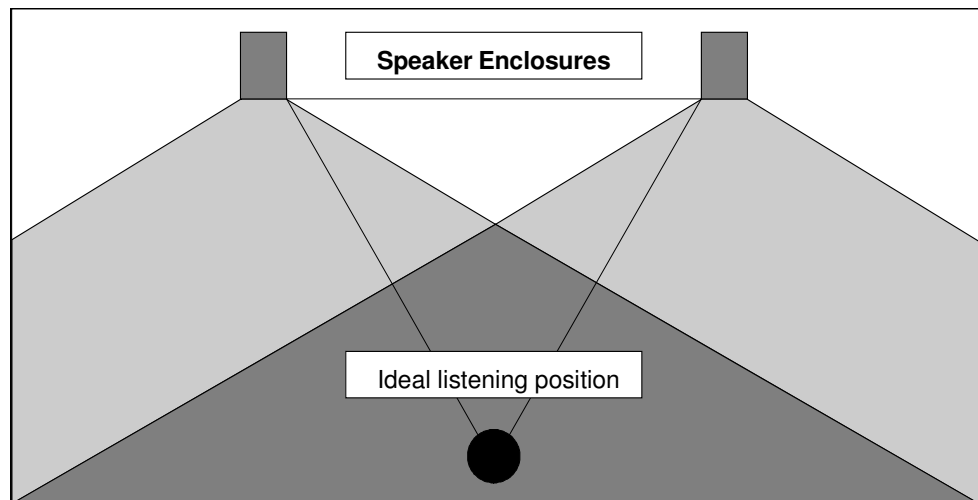
front view

side view

SETTING UP

Set-up position

Carefully remove the loudspeakers from the packing cartons and set them up in an appropriate location. Avoid direct sunlight, dust and humidity to the loudspeakers by choosing the final placement. The loudspeakers can easily be integrated into any living environment. The sound will be best if the speakers form an equilateral triangle with the listening position when seen from above.



The bass-speakers (behind the slit side panel) should point here to the center, which amounts to distance of the loudspeakers to each other approx. 2.5 m to 3.5 m (98.4 inches to 137.8 inches), and the area between the loudspeakers should remain as free as possible, in order to feast early, sound-falsifying reflections.

To the distance to the space walls in the proximity of the loudspeakers it applies that the spatial illustration with increasing distance to the wall increases and the bass rendition tauter and more outlined becomes. The loudspeakers B 100 are in such a way conceived that they do not require a bass rise through wind near list! They should be set up thus as freely as possible. It applies to keep a minimum distance from 0.7 m (27.6 inches) to the lateral and 0.5 m (19.7 inches) to the rear wall, in order to achieve a good sound balance. The more largely the distances to be selected, the more airily, more highly detailed and more balanced the sound, since the room acoustics less influence on the sound takes. If one attaches importance to a pronounced deep representation, then the distance to the rear wall of the area should be largely selected according to, so that reflections of the area come as late as possible and do not affect the locatableness of the sound negatively.

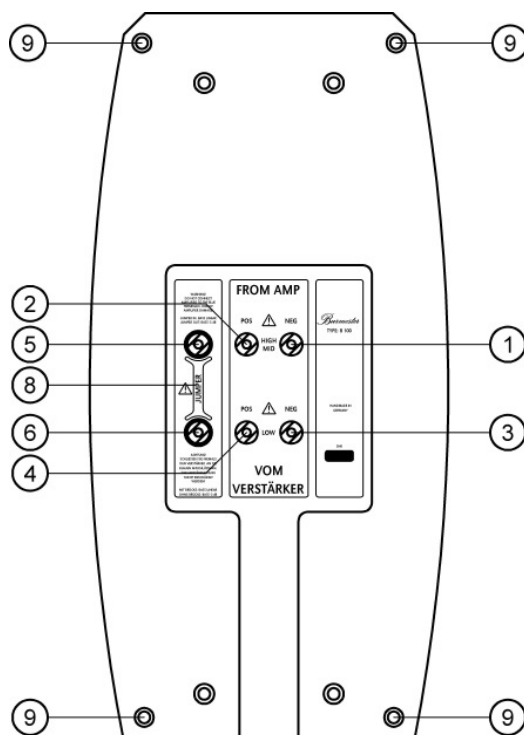
For the perfect "sweet spot" for listening, the crossover of the loudspeaker radiation behind the listener is recommended. That means, the loudspeakers are in-bent so far to the hearing place, until the focus and the symmetry of the space illustration stand to each other in a good relationship. Starting from a certain point one loses however the focus of the illustration, here is in demand a compromise of individual hearing. One can determine the optimal focus very well with a mono admission or a newscaster. The loudspeaker thereby gradually (inch by inch) pre and pushed back to the sound presentation of both transducers from the center comes on the whole. If this is the case, then the loudspeaker degree by degree is turned, until the sound takes only a minimum area.

Experiences show that the loudspeakers should be in-bent so far inward, until one can see straight still the lateral slots of the loudspeakers. If one wants to hear with several listeners, then a crossover of both loudspeakers before the listeners is recommended. Here it applies to find with easy experimenting, the optimal personal taste of the presentation.

The list of the loudspeakers at the longer wall of an area with rectangular surface area is to be preferred at the shorter space wall and the list within acoustically the "hard" range (at smooth walls and window areas) of the area of the list in acoustic "yields" to range (by poster furniture, books and carpets absorbed).

Thus the loudspeaker list is finally final - the trouble wages a clear and dragging along hearing benefit should be.

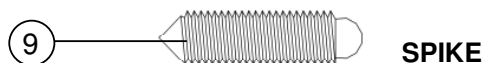
PLEASE NOTE: Keep a minimum distance of 0.5 m (19.7 inches) between speakers and your television set. Otherwise the magnetic fields of the speakers could cause local colour distortions in the T.V.



base of the speaker with wiring terminal and threaded insets

Spikes

If the loudspeakers stand on a floor which tends to react to the music and swing, we recommend using **spikes (9)** to decouple the loudspeakers from extraneous vibrations. The base of each loudspeaker contains four sets of threads. The supplied spikes may be screwed into them and fixed in place with a lock nut to increase stability. Helpfully it is here to attain with a leveling indicator or a spirit level an accurate adjustment.



CONNECTING

Binding posts

We utilize the same binding posts for our loudspeakers as for our power amplifiers. These high-grade terminals for speaker cables have proven their sonic excellence and functional convenience a thousand times over. Speaker cables can be connected via pure-copper spade lugs (included) or via angled 4 mm banana plugs.

CAUTION: The binding posts of loudspeakers may carry dangerously high voltages. Do not touch them while the speaker is connected to a switched-on power amp.

Speaker cables

The wiring inside the loudspeakers consists of 4 mm² silver cable for the tweeter, of 4 mm² oxygen-free copper litz wire for the midrange driver and of 10 mm² oxygen-free copper litz wire for the bass driver. We recommend using high quality cables of large cross section between the loudspeakers and power amps as well to ensure optimal control of the speakers by the damping factor of the amplifier. Best results will be obtained by using original BURMESTER pure-silver loudspeaker cable (99.97%) 2x4 mm².

Connecting

CAUTION: We strongly recommend leaving the power amplifiers switched off while connecting the loudspeakers. This will avoid shorting out cables that have not yet been completely hooked up. Connect the speaker cables to the power amplifiers only after ensuring that they are hooked up correctly to the speakers.

Before turning the amps back on, make sure that all cables have been connected firmly and correctly with respect to polarity (plus, minus) as well as frequency (LOW, HIGH/MID). After a new hook-up, we recommend increasing the volume slowly until you are sure that everything is connected correctly.

IMPORTANT: Only connect the speaker cables to the intended binding posts of the audio amplifier.

Never insert the speaker cables into a wall socket/AC mains, since this will destroy the speaker.

WIRING OPTIONS

The loudspeakers B 100 offer the following wiring options (also see graphic display on next page):

STANDARD

HIGH/MID binding posts (1), (2) and **LOW binding posts (3), (4)** are bridged using copper **BI-WIRING BRIDGES (7)**. (POS to POS and NEG to NEG respectively). For practical purposes, the speaker cables should be connected to the **LOW terminals (3), (4)** by either spade lugs or by angled banana plugs.
CHECK POLARITY CAREFULLY!



BI-WIRING BRIDGE

To enhance performance of our loudspeakers B 100 we suggest to use:

BI-WIRING

Separate speaker cables for MID/HIGH and for LOW are connected in parallel to the output terminals of the power amplifier.
Remove the **BI-WIRING BRIDGES (7)** from the binding posts of the loudspeaker.
Now connect the speaker cable for the HIGH/MID range to the **HIGH/MID binding posts (1), (2)** of the speaker.
Connect the speaker cable for low frequencies to the **LOW binding posts (3), (4)** of the speaker.
CHECK POLARITY CAREFULLY!

BI-AMPING

Two power amps are driven in parallel by a preamp. The two power amps could also be the two separate channels of a stereo power amp. This way you have the option of setting up one stereo power amp each directly next to a loudspeaker, which results in shorter speaker cables and therefore a better sound quality.
Remove the **BI-WIRING BRIDGES (7)** from the binding posts of the speaker.
Connect the speaker cable of the HIGH/MID range power amp with the **HIGH/MID binding posts (1), (2)**.
Connect the speaker cable of the LOW range power amp with the **LOW binding posts (3), (4)**.
CHECK POLARITY CAREFULLY!

Please contact your dealer if you have additional questions on Bi-Wiring or Bi-Amping.

BASS ADJUSTMENT

The bass intensity of the B100 can be reduced by taking out the **CIRCUIT BRIDGE (8)** between the **blue binding posts (5), (6)** (-3dB between 80Hz and 120Hz). This helps to achieve a clean and transparent bass intensity in rooms with critical acoustic.

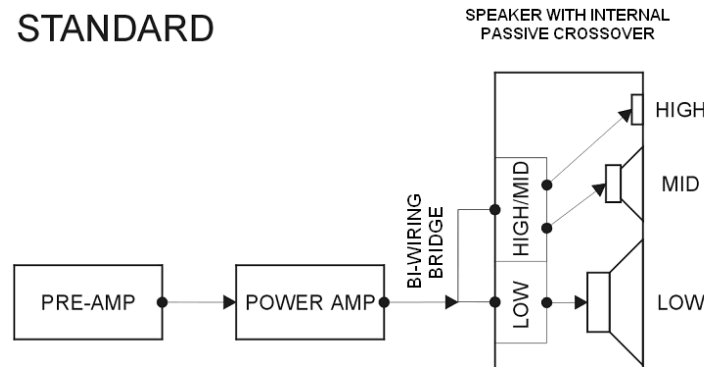
This connection variant should be selected however only under really critical spaceacoustic conditions!



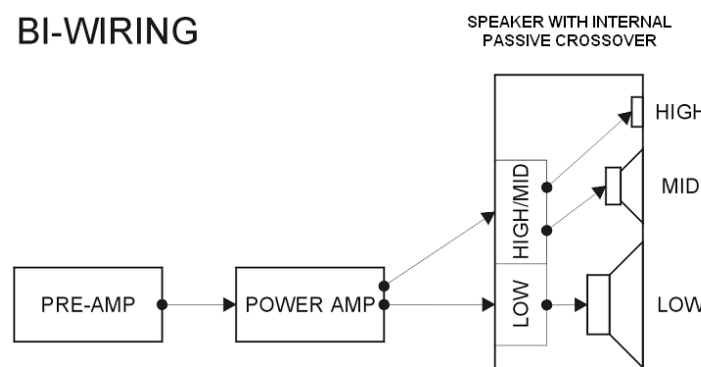
CIRCUIT BRIDGE

Don't ever connect your amplifier to the blue binding posts!

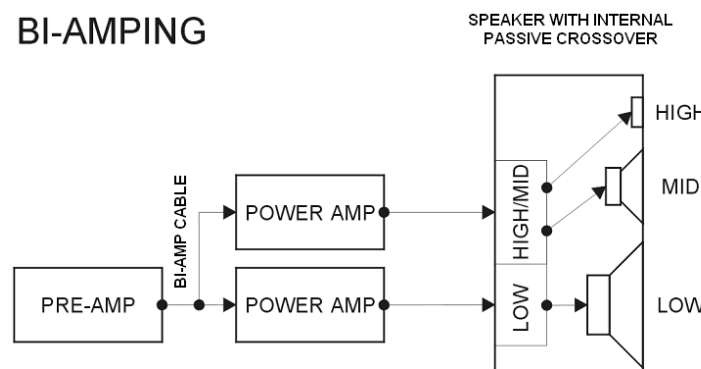
STANDARD



BI-WIRING



BI-AMPING



PRECAUTIONS

Interconnects	We custom-make speaker cables of any length to ensure highest-quality signal paths for our loudspeakers. The impedance of our cables is ideally matched to all Burmester components.
Burn-In	All drivers used in this loudspeaker have been thoroughly burnt-in and afterwards computer selected. However, all mechanical systems need a certain break-in period to achieve peak performance. You may know this phenomenon from a new car, which also needs a certain running-in time.
Performance	This speaker is capable of filling large rooms with richly dynamic music. To sound its best and to avoid clipping (distortions of an amp operating at the limit of its capacities), it should be driven by power amplifiers of the highest quality.
Cleaning	Only use a humid or dry cloth to clean loudspeaker's housing. For cleaning the membrane use only a dry cloth and be very carefully. Never use a wet cloth or chemical liquids to clean the loudspeaker.

TECHNICAL DATA

Dimensions	Width x Height x Depth	310 x 1,495 x 620mm (12.2 x 58.9 x 24.4 inches)
Weight		128kg (281.6 lbs)
Frequency Response	± 3 dB	30Hz – 45kHz
Rated Power Handling		400W
Sensitivity	2.83V, 1m	91dB
Rated Impedance	DIN	30hm
Crossover Points		160Hz; 2,700Hz

The technical datas and design of this product are subject to change without notice.