



Loving music

Ceramic Magnetic Bearing

C M B

Bedienungsanleitung
User Manual



clearaudio electronic GmbH
Spardorfer Str 150
91054 Erlangen
Germany

Tel: +49-(0)9131/57702 & 59595 - Fax: +49-(0)9131/51683
E-mail : info@clearaudio.de -
www.analogshop.de - www.clearaudio.de

(Technische Änderungen und Irrtümer vorbehalten -
Technical changes are subject without notification)
Stand: 12/07

© clearaudio electronic GmbH 2007

E

The development of the **clearaudio** CMB-Bearing (Ceramic Magnetic Bearing) took several years of research and is based on a **clearaudio**-patent.

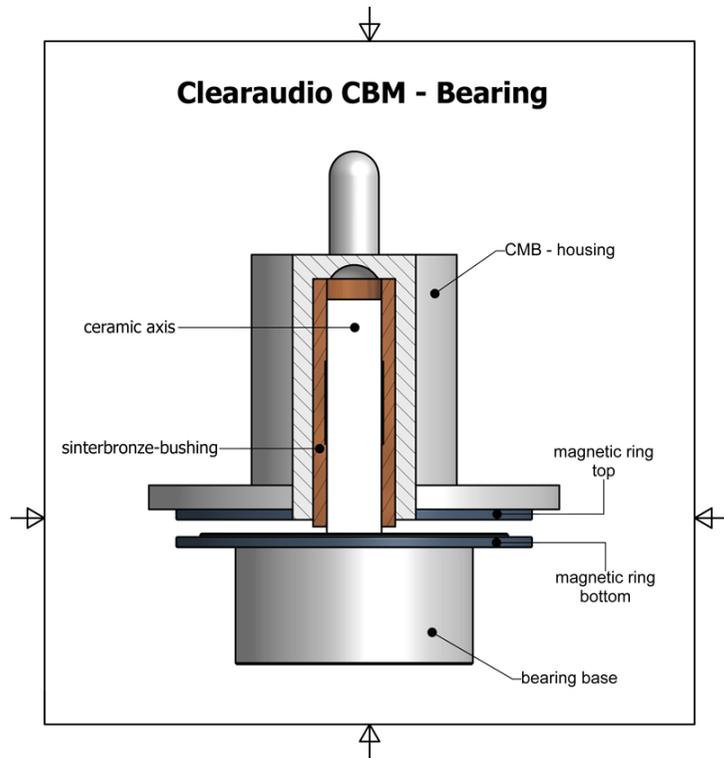
Two upon each other arranged homopolar magnetic fields are acting in a small, defined range and are pushing each other off. In spite of the small operating range the magnetic fields are shielded outwards using high efficient materials.

A polished, high-precision axis made out of ceramic is vertically conducted in a sinterbronze-bushing. The matching process of these elemental parts for this inverted bearing principle is realised by hand in highest possible accuracy.

The CMB-bearing is greased with a full-synthetic oil.

The interaction of these selected parts leads to the effect that lets your turntable platter float.

The result of using the CMB-bearing are rumble measurements as low as never reached until now as well as an improved constant velocity.



The CMB-bearing consists out of two parts, one upper bearing part and one lower bearing part. A magnetic ring is placed on each bearing part and is additionally marked with a colour-coding.

When leaving the factory the CMB-bearing is greased with full-synthetic oil (Art. No.: AC068).

To assure the best greasing of your CMB-Bearing, we recommend to put a few drops of the full-synthetic oil onto the ceramic-axis every 12 months.

Assembly:

The assembly of the CMB-bearing is very easy and is done in a moment:

Therefore take the turntable platter of the turntable-bearing and place it apart.

Use an hex key wrench that fits to unscrew the screw at the upper side of your turntable. Take the bearing out of the cut-out in the chassis and lay it apart.

Clean the cut-out in the chassis with an adequate cleaning fluid.

Now place the CMB-bearing into the cut-out of the chassis and be sure that the colour coding of both magnetic rings are facing each other.

Mount the CMB-bearing into the cut-out using the screw of your exchanged bearing.

At this moment don't forget to place the metal disc between the chassis and the screw.

Slide the turntable platter gently (!) onto the upper part of the bearing. Do not use too much pressure! Do not try to slide the CMB-Bearing and the turntable platter together onto the ceramic axis, damage could occur!

Due to the precise fabrication it could be necessary to let the turntable platter spinning some rounds turning by hand until the remained air is removed out of the bearing.

At this stage you have completed the assembly of your CMB-bearing.

Before listening to music, please check the set-up of the VTA (Vertical Tracking Angle) of your cartridge.

Important Notice:

- Keep the working space clean while exchanging the CMB-Bearing (no metal dust).

You can remove any metal dust best with a clean towel from the CMB-bearing!

- When exchanging the bearing of the **clearaudio** turntable models: "Champion Level II" as well as "Master Reference" bring the turntable chassis into a vertical position in order to unscrew the bearing screw. Bring the turntable chassis into horizontal position again before removing the old bearing, otherwise the middle bearing-housing could fall out!

clearaudio wishes you a lot of enjoyment while listening to music!