



concept mc

Loving music

User manual
Bedienungsanleitung





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Dear audio enthusiast,

Thank you and welcome to the GENERATION of **Clearaudio** MC Cartridges. You have purchased a product of truly high-end-class with new design features never done before.

Clearaudio MC cartridges represent top quality of German craftsmanship and their superior quality has been proved and documented in numerous reviews world wide over almost 3 decades.

Starting at the source, the reproduction via vinyl, we can assure you flawless musical satisfaction which is a basic feeling for those who love music as we do.

Clearaudio has developed in research and refined the manufacturing that we could claim:

- this is the reason for a pole position worldwide and you have bought an incomparable product.

Please note:

These user manual provide valuable advice for the correct installation of your new **Clearaudio** pick-up cartridge. For the fine adjustment however they can only be taken as approximate values and give only a nearly indication since optimum adjustment will depend to a large extent on the quality of your record player or tonearm and the data given in the operating instructions of them.

To ensure complete and accurate installation you should use the available support from your dealer. A minimum supporting device recommendation are:

- **Clearaudio** *Test record* (Art. No. LP43033)
- **Clearaudio** Setting template (Art. No. AC005/IEC).
- Adjusting mirror or the **Clearaudio** *Azimuth Optimizer* (Art. No. EL020)
- **Clearaudio** *Stylus pressure gauge* (Art. No. AC094)

Your dealer will be glad to give you any further support, because he keeps all precision accessories from **Clearaudio** given for precise adjustments.

You now own a fine, scientific instrument.

We congratulate you having done an excellent choice for authentic reproduction of music.

Clearaudio electronic



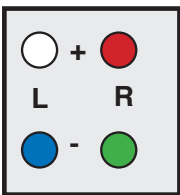
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1. Mounting Procedure

1. Always handle your cartridge with the protective stylus guard in place.
2. Align the mounting holes of the headshell or tonearm with the holes in the cartridge.
3. Attach tonearm wires to cartridge pins, being careful not to add too much force. Also be sure proper channel and polarity is maintained.
4. Insert the screws through the headshell holes and engage them to the inner threads of the cartridge body. Please take care to not overtight them by force.

NOTE: Always try to use **Clearaudio** cartridge gold clips or damage may result on cartridge pins.

	Left output (L+) >> white
	Left ground >> blue
	Right output (R+) >> red
	Right ground >> green

Pic. 1: Color marking of the signalpins

5. Mount the headshell onto the tonearm (if not intergrated), and adjust the overhang as per tonearm manufacturer's specifications and tighten cartridge mounting screws fully with the accessory screwdriver.

Take care that the cartridge is sitting flat and have a full contact to the headshell.

Please read these instructions carefully before attempting to connect or install your MM cartridge to avoid any loss of warranty. There is a very high possibility of damaging your moving magnet cartridge, while connecting or disconnecting to a preamplifier or phonostage which is not properly grounded.

If the ground of your preamplifier and ground of your tonearm and turntable are not connected together, there could be a dangerous situation for your MC cartridge (which will be not covered under warranty). Under such conditions during the procedure of your tonearm first cable connecting to your preamplifier, there could be a high hum voltage of up to 150 V 150 Hz respectively 80 V 160 Hz present! (Depending on preamplifier-circuit design!) High current which could flow through your MC cartridge during the plug in procedure could result in damaging and melting very fine MC Coil gold wires.

This would be not covered by **Clearaudio** warranty! Therefore, be careful and follow instructions below:

1. **Connect tonearm turntable ground with preamplifier ground (before plugging in the electrical power supply)**
2. **Mount MC cartridge into the tonearm**
3. **First plug the tonearm cable into the phono inputs an your preamplifier**
4. **Preamplifier volume control must be placed fully down (position „ 0“)**
5. **Plug the main power cord into your electrical power supply**
6. **Switch „ ON“ your preamplifier**
7. **Your MC-Cartridge is ready to play!**



Loving music

Keep calm and concentrated when adjusting the cartridge.

Damaged music reproduction or cartridge fault will never reproduce the one we love: music

**ATTENTION:
NOT FOR SHELLAC (78RPM) RECORDS SUITABLE!**

2. Adjusting the Tracking Force

Carefully remove the stylus protection guard. This can be done by grasping it from the rear with thumb and index finger and pulling it rearward gently. The correct tracking force is approximately 2,2 g (+/- 0,2 g). Please use only these values, as a light tracking force (1 gram or less) would allow the stylus to jump an the record grooves will cause damage. **NEVER exceed 5 grams tracking force** or damage to stylus or cartridge may result. If optimum tracking force cannot be set because the cartridge is too light for the arm, please use **Clearaudio** headshell spacers, available from the importer / dealer.

3. Further adjustments

1. The correct position of the cartridge (overhang setting) depends of the length and shape of the tonearm and of the mounting point of the tonearm bearing. For precise setting you need a setting template, which is usually supplied or offered by the manufacturer of the respective turntable or tonearm. Often quite inaccurate paper- or plastic templates are attached, which do not allow precise adjustments due to the material. Special overhang templates are available through your local dealer or from **Clearaudio** (Art. No. AC005/IEC).

2. Please adjust the tracking force according to the enclosed original measurement protocol and the given optimal tracking force. To check the adjustment (trackability) you can use a test records which is available through you dealer (for example **Clearaudio** Art. No. LPT83063).

3. Setting the Anti-skating: Many tonearms have a device to compensate the anti-skating force. Please proceed according to the user manual of your tonearm manufacturer. For absolutely correct setting we would also like to recommend a test record.

4. Delivered accessories

- Allen key
- Cartridge mounting screws

Analogue accessories are available at: www.analogshop.de

5. Special Instructions

5.1 Maintenance

- Always keep the stylus tip clean. When dirt is allowed to build-up and records are played with a dirty or clogged stylus, a „buzzing noise“ can be heard. Use a high quality cleaning brush or **Clearaudio** cleaning fluid to clean the stylus tip. Be extremely careful and always brush only from the back to front. When using a liquid e.g. from **Clearaudio** or other organic cleaner, always take care not to spill any on the cartridge body. Make sure the liquid will always contact only the stylus tip or boron cantilever.
- Before playing a record, please remove all dust and dirt from the record surface using a quality cleaning device. For the best results, a record cleaning machine should be used. Ask your dealer for **Clearaudio**'s Matrix-cleaning machines. (e.g. *Smart Matrix Professional*, *Double Matrix Professional Sonic*, cleaning both sides of LP-record at once!)
- The normally lifetime of a **Clearaudio** HD Diamond is by careful treatment and correctly adjustment up to 8000 hours!
- Always avoid storing your cartridge near any objects using electrical transformers and motors, which may generate magnetic fields. Any demagnetisation contact will result in a drop of output voltage and possible case of distortion or degradation.
- Every new V2 generation **Clearaudio** MC cartridge consists of very powerful magnets, therefore use extreme care and not to use any steel or magnetic parts near the cartridge, which may be attracted to it and possibly damage the stylus or boron cantilever.
- Please note:
Never disconnect your tonearm cable from your preamplifier, while your unit is still „ON“. Please switch your preamplifier „OFF“, before starting to disconnect your tonearm connectors from the phono inputs of your preamplifier.

5.2 Service

- The warranty of the *concept mc* cartridge is 2 years.
- If any service or repair on all **Clearaudio** products is necessary, please contact your dealer / distributor or contact **Clearaudio** directly. We can inform you as well about your nearest service location. More warranty information on page 14.

Important - please note:

Any damage caused by failure to follow the advice given in the **Clearaudio** user manual will invalidate the product warranty. **Clearaudio** will assume no liability for any such damage.

PLEASE RETAIN ALL ORIGINAL PACKAGING. You will need it if this unit has to be transported and/or shipped. Any further questions you may have about your product should be directed to the distributor or directly to **Clearaudio**.

Clearaudio wish you a lot of pleasure listening to music!



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6. Technical data

Cartridge weight:	8.0 g
Frequency response:	20 Hz - 40 kHz
Output Voltage:	0.4 mV at 5cm/sec
Crosstalk:	> 30 dB
Channel difference:	< 0.5 dB
Tracking ability:	80 μ m
Recommended tracking force:	2.0 g (\pm 0.2 g)
Cartridge Impedance:	11 Ω
Cantilever:	Boron
Stylus Shape:	Micro Line
Compliance:	9 μ /mN
Coil assembly:	--
Coil material:	OFC-copper
Cartridge body:	Aluminum-magnesium alloy with ceramic surface layer
Warranty:	2 years*

* Provided that the warranty card is correctly completed and returned to **Clearaudio** within 14 days of purchase.

Clearaudio electronic is not responsible for typographical errors in descriptions.
Technical specifications subject to change or improvement without prior notice.
Product availability is as long as stock lasts.
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