



Loving music

Talisman

Moving-Coil Cartridge

User Manual



Thank you.

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 operating instructions 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:

- Test record (Art. No. LP43033/180)
- Setting template (Art. No. AC005/IEC).
- Adjusting mirror or the Clearaudio Azimuth Optimizer (Art. No. EL020)
- 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.

Mounting Procedure:

1. Align the mounting holes of the headshell or tonearm with the holes in the cartridge.
2. Attach tonearm wires to cartridge pins, being careful not to add too much force. Also be sure proper channel and polarity is maintained.

The signalpins are with the following colours marked:

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

3. Insert the screws through the headshell holes and screw them into the inner threads of the cartridge body. Tighten only enough so there is no movement of cartridge. Don't overtight the inner threads of the cartridge body.

NOTE: Always try to use Clearaudio cartridge gold clips (Art.No. CO011) or damage may result on cartridge pins.

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

Adjusting The Tracking Force

The correct tracking force is approximately 2,4 grams. 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.

Other Adjustments

Proper VTA is set by plain leveling onto the platter with an distance of 0,3 and 0,5mm between LP and lowest part of the body.

The output of the cartridge is about 0.5 mV and most high end phono preamplifiers can handle this output level. You may also use a MC head amplifier. Cartridge loading depends upon the specific electronics in use, but generally 47 kOhms is recommended with most tube equipment and some solid state . Loading between 100 Ohms and 1 Kohms may be used with some solid state for best results. We strongly recommend starting at 47 kOhm loading down until breaking in has been completed. All Clearaudio phonostages are always an ideal partner. We achieved the best results with a loading of 400 ohms.

MAINTAINANCE:

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 (Art.No. AC003) to clean the stylus tip. Be extremely careful and always brush only from the back to front.

When using a liquid such as 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 cantilever.

ATTENTION!

Please read these instructions carefully before attempting to connect or install your MC-Cartridge to avoid any loss of warranty. There is a very high possibility of damaging your moving coil 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 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 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! Enjoy the music.

ATTENTION!

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.

ATTENTION!

Every new generation Clearaudio MC cartridge consists of very powerful magnets (currently the most powerful magnets available in this size), 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 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. Double Side Matix, cleaning both sides of LP-record at once!)

AVOID!

Always avoid storing your cartridge near any objects using electrical transformers and motors, which may generate magnetic fields. Any demagnetisational contact will result in a drop of output voltage and possible case of distortion or degradation.

Once again:

Keep cool and concentrated when adjusting the cartridge. As a music lover you should have all adjustment accessories even if you think they are expensive or difficult to use.

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

ACCESSORIES

- Precision metal screwdriver
- Cartridge mounting screws and nuts

Technical Specifications:

Stylus shape:	elliptical
Cartridge weight:	11g
Recommended tracking force:	2,4g
Compliance:	6×10^{-6} cm/dyne
Output voltage:	0,5 mV at 5 cm/s
Cartridge Impedance:	45 Ohms
Cartridge body:	tonewood ebony

Clearaudio electronic GmbH

Spardorfer Str 150
91054 Erlangen
Germany

Tel/Phone: +49-(0)1805/059595

www.clearaudio.de
info@clearaudio.de

Analog accessories are available at: www.analogshop.de