

ALLNIC AUDIO
- THE PURITAS -
MOVING COIL PHONO CARTRIDGE



OWNER'S MANUAL

ALLNIC AUDIO THE PURITAS MOVING COIL PHONO CARTRIDGE

Thank you for purchasing this Allnic Audio Puritas Moving Coil Phono Cartridge. We are certain your trust in Allnic Audio and Allnic Audio USA, as well as your appreciation for the sound of this high-quality device, will be rewarded by its excellent operation for years to come.

Please read this entire manual before you install the Allnic Audio Puritas Moving Coil Phono Cartridge on your favourite tonearm.

Albert Porter

AlbertPorter@Gmail.com

Dallas, TX

North American Distributor, Allnic Audio.

AllnicAudioUSA.com

PRINCIPAL FEATURES OF THE PURITAS

Many cartridge manufacturers boast of using special materials, good tips and solid bodies, etc, and not of their superior conception, that is, of the rationale for their cartridges' design and construction.

STRUCTURE MAKES A BIG DIFFERENCE

First, every LP record master is engraved using an LP cutting lathe's cutter head. The Puritas moving coil (MC) cartridge is designed to reproduce music via a mechanism that emulates the LP cutting lathe's cutter head, of course, however, with a diamond stylus that tracks the record grooves' faces, rather than with a diamond chisel for cutting the grooves into the vinyl.

Please refer to Figure 1, illustrating two types of MC cartridge in comparison to a cutting head.

Second, the Puritas has two separate hollow polycarbonate bobbins, as opposed to one bobbin designed as an iron square or cross-block. Please refer to Figure 2.

Third, iron is about nine times heavier than poly carbonate, so a conventional iron bobbin reacts with far less agility to the musical grooves of a vinyl record than one made of hollow polycarbonate.

Fourth, as a cantilever moves along the vinyl's grooves, it needs a pivot. Conventional MC cartridges' coils are located near the pivot because of their heavy moving mass. Because of its lighter moving mass, relative to conventional MC cartridges, the Allnic Puritas's coils are nearer to the diamond stylus. The result for the Puritas is increased coil vibration capability and, therefore, more detailed audio reproduction. Please refer to Figure 3. In addition, the Puritas' cantilever's length meets the same specification as for a cutting head.

The Puritas also features a:

- **solid ebony body**
- **solid boron cantilever**
- **zinc mounting plate**
- **MicroRidge stylus**
- **weight of 11 grams**

At the end of this manual is a chart that summarizes comparisons and contrasts among the Puritas, a cutting head, and a more conventional MC cartridge.

While the user can expect the Puritas to perform exceptionally well on its first plays, the first hours are not a true indication of what the Puritas can deliver when properly set up and "broken in." Experience indicates that the Puritas will continually improve over a minimum of forty (40) hours of playing time, reaching a level of performance well beyond its initial one, and we believe well beyond that of most MC phono cartridges.

Figure 1 – Cartridge / Cutting Head Comparison

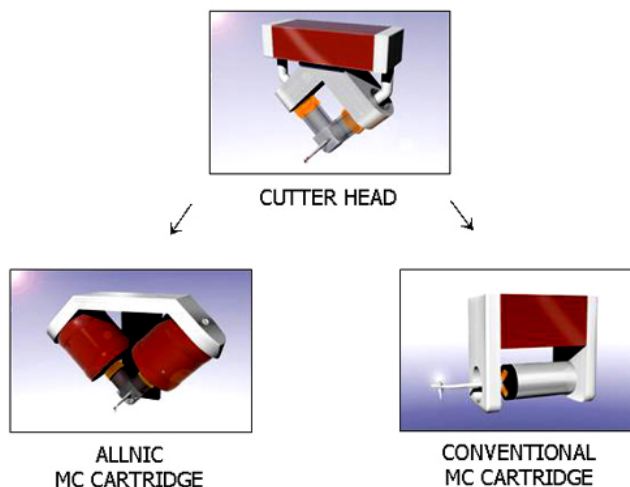


Figure 2 – Cartridge Bobbin Comparison

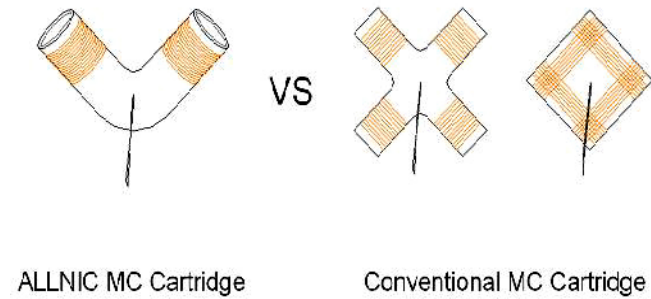
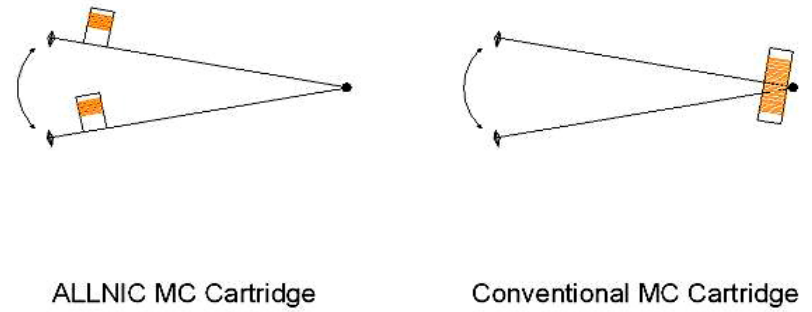


Figure 3 – Comparison of Puritas and Conventional MC Cartridge Pivot to Coils Relationship



SPECIFICATIONS FOR THE ALLNIC AUDIO PURITAS MOVING COIL CARTRIDGE

Output Voltage	0.3 mV 1KHz / 7cm/s
Impedance	18 ohms
Compliance	7×10^{-6} dyn / cm (100Hz)
Tracking Force	Suggested minimum 2.1 grams (+/- 0.2 gram) varies by altitude; use this as a guide only
Channel Separation	30 dB above
Channel Balance	Within 0.2 dB
Frequency Response	20 Hz to 30 KHz
Cantilever	Solid Boron, 0.28 mm diameter
Stylus	MicroRidge nude diamond
Cartridge Weight	11 grams

CAUTION!

The Puritas uses very, very fine wire within its housing. **DO NOT** break those wires. Be particularly careful with the mounting screws – **DO NOT** drop them into the body of the cartridge. **AND BE SURE** that your phono preamplifier is off or muted during cartridge installation and/or changing headshells. **Failure to observe these instructions will void the warranty.**

The Allnic Audio Puritas MC phono cartridge will function extremely well with any Allnic Audio phono stage.

Please use a tone arm and head shell that are appropriate for the Puritas specifications. Many high end tone arms work very well with the Puritas. Contact Allnic Audio USA for recommendations.

Please use only the supplied non-magnetic, or other equivalent non-magnetic mounting screws.

DETAIL OF THE PURITAS INTERNAL CONSTRUCTION



DETAIL OF THE PURITAS TONE ARM CABLE CONNECTORS



WARRANTY

The Puritas cartridge is warranted against materials and manufacturing defects for parts and labour for one (1 year from date of purchase. The warranty is transferable for the balance of the original purchaser's warranty period, provided, as stated below, no unauthorized repairs or modifications have been performed on the product. Date of purchase is the date indicated on the invoice for the product issued by Allnic Audio USA.

For the warranty to be valid, a defective product must be returned to Allnic Audio USA for service prior to any unauthorized attempt to repair. Any repair work on an Allnic Audio product not specifically authorized by Allnic Audio USA will void the warranty on the product.

**SUMMARY CHART:
COMPARISON AND CONTRAST OF ALLNIC PURITAS, CUTTER HEAD AND A CONVENTIONAL MC
CARTRIDGE**

	ALLNIC MC Cartridge	Cutter Head	Conventional MC Cartridge
Number of Magnetic Circuits	Two =	Two	≠ One
Direction of Magnetic Circuit	side by side =	Side by side	≠ to and fro
Shape of Magnetic Circuit	internal =	internal	≠ external
Winding of Coil	on two air bobbin =	on two air bobbin	≠ on one iron core
Shape of Coil	true circular =	true circular	≠ square or rectangular
Shape of Bobbin	cylindric =	cylindric	≠ square or cross type