

**ALLNIC AUDIO**  
**- VERITO "Z" -**  
**MOVING COIL PHONO CARTRIDGE**



**OWNER'S MANUAL**

*For Production as of January 1, 2010*

# ALLNIC AUDIO VERITO “Z” MOVING COIL PHONO CARTRIDGE

Thank you for purchasing this Allnic Audio Verito “Z” Moving Coil Phono Cartridge. We are certain your trust in Allnic Audio and Hammertone Audio, 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 Verito “Z” Moving Coil Phono Cartridge on your favourite tonearm.



MUSICAL  
TRUTH



David Beetles CEO

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## PRINCIPAL FEATURES OF THE VERITO "Z"

Every LP record master is engraved using an LP cutting lathe's cutter head. The Verito "Z" 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.

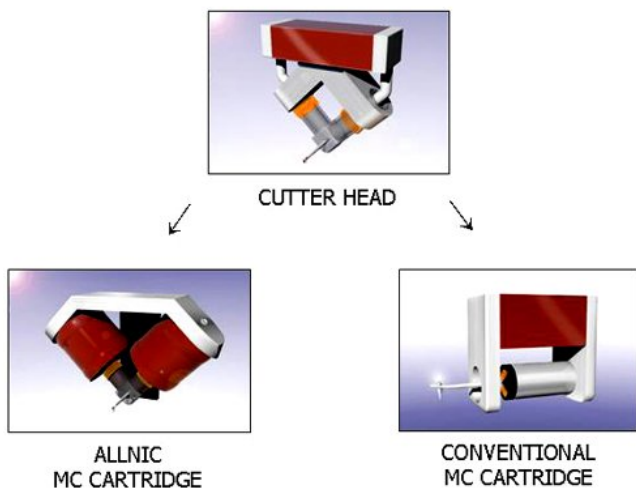
### STRUCTURE MAKES A BIG DIFFERENCE

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.

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

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

**Figure 1 – Cartridge / Cutting Head Comparison**

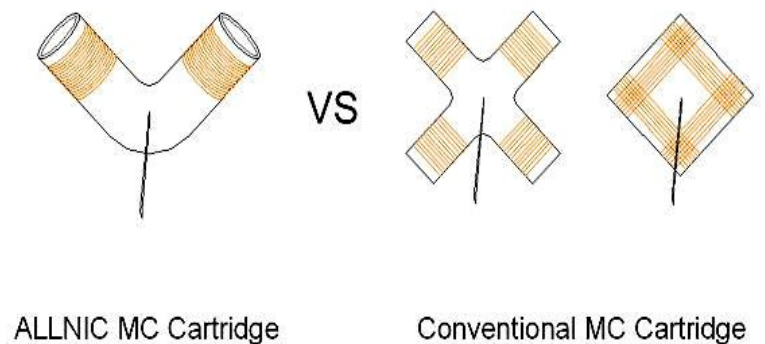


Third, iron is about nine times heavier than poly carbonate, so a conventional iron bobbin reacts with far less agility to the musical groove of a vinyl record than one made of hollow polycarbonate.

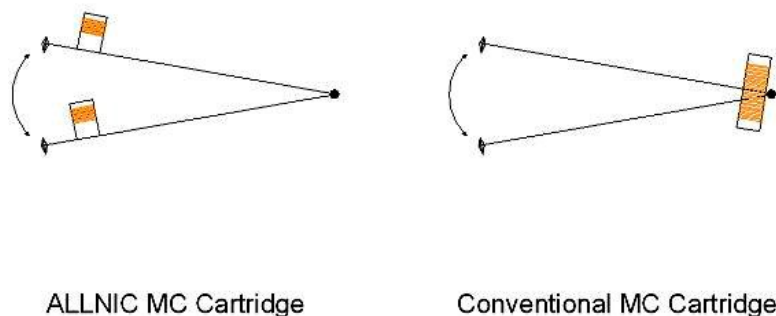
Fourth, as a cantilever moves along the vinyl's grooves, it needs a pivot. Conventional MC cartridges' coils are located near the pivot because of their heavy moving mass. Because of its lighter moving mass, relative to conventional MC cartridges, the Allnic Verito "Z"'s coils are nearer to the diamond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

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

**Figure 2 – Cartridge Bobbin Comparison**



**Figure 3 – Comparison of Verito “Z” and Conventional MC Cartridge Pivot to Coils Relationship**



**SPECIFICATIONS FOR THE ALLNIC AUDIO VERITO “Z” MOVING COIL CARTRIDGE**

Output Voltage	0.35 mV 1KHz / 7cm/s
Impedance	27 ohms
Compliance	6 X 10 <sup>-6</sup> dyn / cm (100Hz)
Tracking Force	2.0 grams (+/- 0.2 gram) varies by altitude; use this as a guide only
Channel Separation	25 dB above
Channel Balance	within 1 dB
Frequency Response	20 Hz to 30 KHz
Cantilever	aluminum alloy
Stylus	nude diamond elliptical (0.7 X 0.3 mil)
Cartridge Weight	9.05 grams

**CAUTION!**

The Verito “Z” 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 Verito “Z” 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 Verito “Z” specifications. Many high end tone arms work very well with the Verito “Z” . Contact Hammertone Audio for recommendations.

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

**DETAIL OF THE VERITO "Z" INTERNAL CONSTRUCTION**



**DETAIL OF THE VERITO "Z" TONE ARM CABLE CONNECTORS**



## **WARRANTY**

All Allnic Audio amplifier products are warranted against materials and manufacturing defects for parts, excluding tubes, and labour for two (2) years from date of purchase. Tubes are warranted against materials and manufacturing defects 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 Hammertone Audio.

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

**SUMMARY CHART:  
COMPARISON AND CONTRAST OF ALLNIC VERITO "Z", 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