

Phasemation MC Phono Pick-up Cartridge P-1G

INSTRUCTIONS

Thank you for purchasing Phasemation P-1G, MC phono pick up cartridge. Please read the following instructions carefully to follow the proper use of P-1G before setting it up and to enjoy it for many years.

System

This cartridge P-1G is a low-impedance-moving-coil type. Please use it with an MC low impedance step-up transformer or a head amplifier (MC input of PHONO) in order to connect it to a phono amplifier.

Features

1. The magnetic circuit is overhauled and the shape of the yoke is designed to materialize high efficiency and superior uniformity of the magnetic field.
2. Purmendum materials and samarium-cobalt magnet(s) are adopted which can enhance the magnetic flux density B_m and retentivity H_c and compose the stable magnetic field.
3. The base which builds the mechanical grounding uses titanium carved materials with DLC (Diamond Like Carbon) treatment¹. The body with high rigidity and superior vibration dumping characteristics is successfully materialized.
4. The cartridge body is made of an ebony which is a natural element having natural strength and attenuation characteristics; the resonance-free and vibration-free features are successfully materialized by combining the body with the titanium base.
5. Wire dampers are added to restrain the resistance loss and tiny resonances of the lead wires generated by the generator coil.
6. All parts of this cartridge are manufactured with carving processes without using any molds in order to keep the accuracy and to rid the vibration other than from the generation of the electric power.
7. Cantilever using light and highly rigid pure boron materials, an electric generator with 6N oxygen free copper wires and pure iron coil bobbin with high saturation magnetic flux density are used as elements which succeed to a richer musical expression.

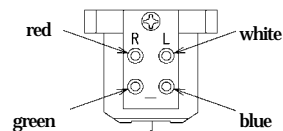
*1: The generic term of the carbon thin film with high rigidity and electric insulation, whose hardness is equivalent to the hardness of diamond synthesized by the gas phase synthetic method. Its surface hardness is elevated to more than $H_v = 3000$, after diamond.

Connection

Magnet poles of each terminal are shown on the right.

Properly connect them in accordance with the colors of the lead wires.

The left upper terminal:	Right channel Hot + (red)
The right upper terminal:	Left channel Hot + (white)
The left lower terminal:	Right channel Earth - (green)
The right lower terminal:	Left channel Earth - (blue)



Installation

The mounting hole of this cartridge is a through-type and it may be pinched with the shell and the screw. The recommended length of the screw (M2.5mm, P0.45mm) is 10mm.

Cautions

1. Please do not touch the coil and the wire when you clean the stylus chip with a brush.
Be sure to avoid using cleaners such as alcohol solvents or it can cause trouble such as chip skipping.
2. Do not apply heat to the cartridge directly such as soldering a lead wire at the output terminal. It can cause trouble such as getting the wire broken.
3. Use at a temperature 20 to 26 °C. This cartridge will hardly perform as well as when it was designed if it is used at a temperature out of the range.
Before using this cartridge, please make sure to take enough warm-up time until the room temperature fits in the range especially in winter.
4. When you clean this cartridge, please use dry clean cloth. Be sure to avoid using a cleaner such as alcohol and thinner solvents.

Specifications

• Electric Generation :	Moving coil
• Impedance :	4 ohm
• Appropriate Needle Pressure :	1.7 to 2.0 g
• Output Voltage :	0.27 mV or more (horizontally 1 kHz 50 mm / s)
• Freq. Range at Play :	10 Hz to 30 kHz
• Compliance :	8.0×10^{-6} cm / dyne (100 Hz)
• Separation :	30dB or more (1 kHz)
• Channel Balance :	Within 1 dB (1 kHz)
• Applicable Temp. Range :	20 to 26 °C
• Self weight :	9.8 g
• Stylus Chip :	Diamond (line contact / bending rate 0.03 x 0.003 mm)
• Cantilever :	Pure boron (Diameter 0.26 mm)
• Magnet :	Samarium-cobalt Magnet
• Magnetic Circuit Components Material :	Purmendum
• Material of Base/Body :	Titanium carved material/Ebony carved material (with DLC treatment)
• Dimensions :	See the figure
• Accessories :	Hex wrench, Screw (M2.6x10) x2, Washer x2, Nut x2

* Dimensions and specifications are subject to change without notice in order to improve it.

Needle exchange

Since the MC cartridge is a stationary type, please contact the dealer when exchanging the needle.

Guarantee period

Within 1 year of purchase

Manufacturer/Seller

Kyodo Denshi ENG Co., Ltd. 4900-1 Ikonobe-cho, Tsuzuki-ku, Yokohama-shi, 224-0053 Kanagawa, Japan. Phone: 045-934-5234

