

# PP-200

MC PHONO PICKUP CARTRIDGE

Phasemation

# Owner's Manual

P020-0920-01

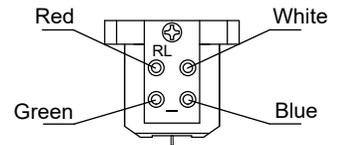
Thank you for purchasing Phasemation PP-200, MC phono pick up cartridge. Please read the following instructions carefully to follow the proper use of PP-200 before setting it up and to enjoy it for many years.

## ● Connection

Magnetic 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

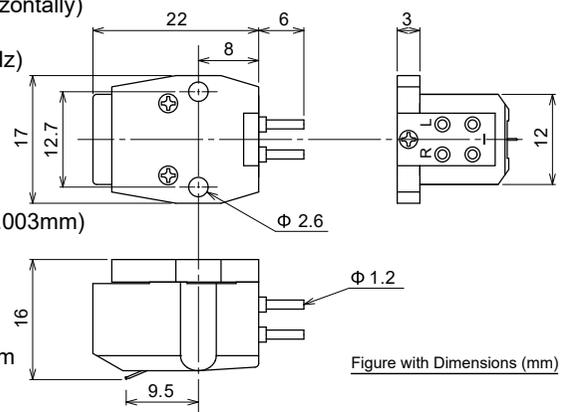
The mounting hole of this cartridge is a through-type and it may be pinched with the shell and screw or directly screwed to the shell. The recommended size of the screw is M2.6mm, P0.45mm.

## ● Cautions

1. This cartridge PP-200 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.
2. When cleaning the stylus chip, use a brush without touching the coil or the wire and remove the dirty spots from the stylus chip. Never use any moist cleaners when cleaning the stylus chip. It will harm the glue and be the cause of damages. Also be sure to avoid using solvents such as alcohol or it can cause trouble such as chip skipping.
3. Do not apply heat to the cartridge directly such as soldering the lead wire at the output terminal. It can cause trouble such as breakage of the wire.
4. Use at a temperature from 20°C to 26°C. This cartridge will not perform as well as it is designed if it is used at a temperature out of the range. If the cartridge was stored in winter, make sure to take enough warm-up time until the room temperature fits in the range before using this cartridge.
5. When cleaning this cartridge, please use a dry clean cloth. Be sure to avoid using solvents such as alcohol/thinner or moist cleaners.

## ● Specifications

- |                                |   |
|--------------------------------|---|
| 1. Electric Generation         | Moving Coil   |
| 2. Impedance                   | 4Ω  |
| 3. Appropriate Needle Pressure | 1.7 - 2.0g  |
| 4. Output Voltage              | 0.3mV or more (1kHz 50mm/s horizontally)              |
| 5. Freq. Range when Playing    | 10Hz - 30kHz  |
| 6. Compliance                  | 8.5μ/mN [8.5 x 10 <sup>-6</sup> cm/dyne] (100Hz)      |
| 7. Separation                  | 25dB or more (1kHz)                                   |
| 8. Channel Balance             | Within 1dB (1kHz)                                     |
| 9. Applicable Temp. Range      | 20 - 26°C   |
| 10. Weight                     | 10.3g ± 0.3   |
| 11. Stylus Chip                | Diamond<br>(line contact / bending rate 0.03×0.003mm) |
| 12. Cantilever                 | Pure Boron (Φ0.2mm)                                   |
| 13. Magnet                     | Neodymium   |
| 14. Magnetic Circuit           | Pure Iron   |
| 15. Material of Base/Body      | Base: Duralumin / Body: Aluminum                      |
| 16. Dimensions                 | See Figure  |



\*Dimensions and specifications are subject to change without notice due to improvements.

## ● Needle Exchange

When exchanging the cartridge needle, we will keep the unit and exchange the needle-assembly.

(The cartridge itself will stay as before). When exchanging the needle, please bring the cartridge and consult the dealer.

Manufacturing/Sales

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