

Wonder Audio Labs

USER MANUAL

P1 Deluxe

High-End Phono Stage Preamplifier

Dear music lover,

Thank you for purchasing a Wonder Audio Labs P1 phono stage preamplifier.

In order to achieve maximum performance and reliability you should study these instructions for use carefully.



Warning of a hazard for the user, the unit or possible misuse.



Important notice.

Safety instructions



AC outlet voltages vary from country to country. Before connecting to the mains, make sure that the voltage in your area meets the voltage requirements printed on the power supply. The power supply is used to connect/disconnect the unit from the mains. Make sure that the power supply is easily accessible at all times. Never handle the device, the power supply while your hands are wet or damp. Avoid letting liquids enter the device or the power supply. Never place any item containing liquid, such as a flower vase on or near the device. Never spill any liquid on the device or the power supply. Never place any naked flame sources, such as lighted candles on or near the device. The product shall not be used in damp or wet locations, next to a bathtub, sink, swimming pool or any other similar conditions.



To reduce the risk of electric shock, do not remove cover. No user-serviceable parts inside.

Refer only to qualified Wonder Audio Labs service personnel for service.

● INTRODUCTION AND FEATURES

THE EXTREMELY ADVANCED PHONO STAGE

The P1 is the best and the most complicated phono stage preamplifier we have ever made before, a unique audio engineering designed to be innovative in every possible way and 100% truly high-end design in hardware either software. Featuring exclusive invented amplifier module, matching resistance up to 1000 levels adjustable from 10—1019 Ohm, class A discrete components, built in excellent quality MC step up transformer, single pole balanced tube amplifier circuit, +100 composite EQ curves, include two RIAA module (passive and active), manually adjustable custom settings, and very friendly operation screen user interface. Thanks to +100 EQ curves available and more than 1000 levels resistance matching , you will be able to play virtually any record the way, or even customise the EQ curves manually by adjusting yourself. This is a brand new product, which will make you feel the unprecedented new experience of vinyl reproduction.

SUPER PERFECT CARTRIDGE MATCHING

P1 has 8 options to adjust the gain, up to 1000 levels adjustable impedance for the load and 32 levels for the capacitance, excellent quality MC step up transformer specially for MC cartridge. There is no doubt that it is the most comprehensive high-performance analogue matching network circuit systems. The best score summarized by the product designer and engineer team in combination with more than 30 years of high-quality audio manufacturing experience.

FRIENDLY USER INTERFACE

This P1 uses a 3.2-inch color LCD screen, which displays all aspects of consultation. Combined with key or tune operations, it is very convenient to operate the menu and adjust various parameters. Each input channel has a separate memory area, and the last setting can also be permanently saved after shutdown.

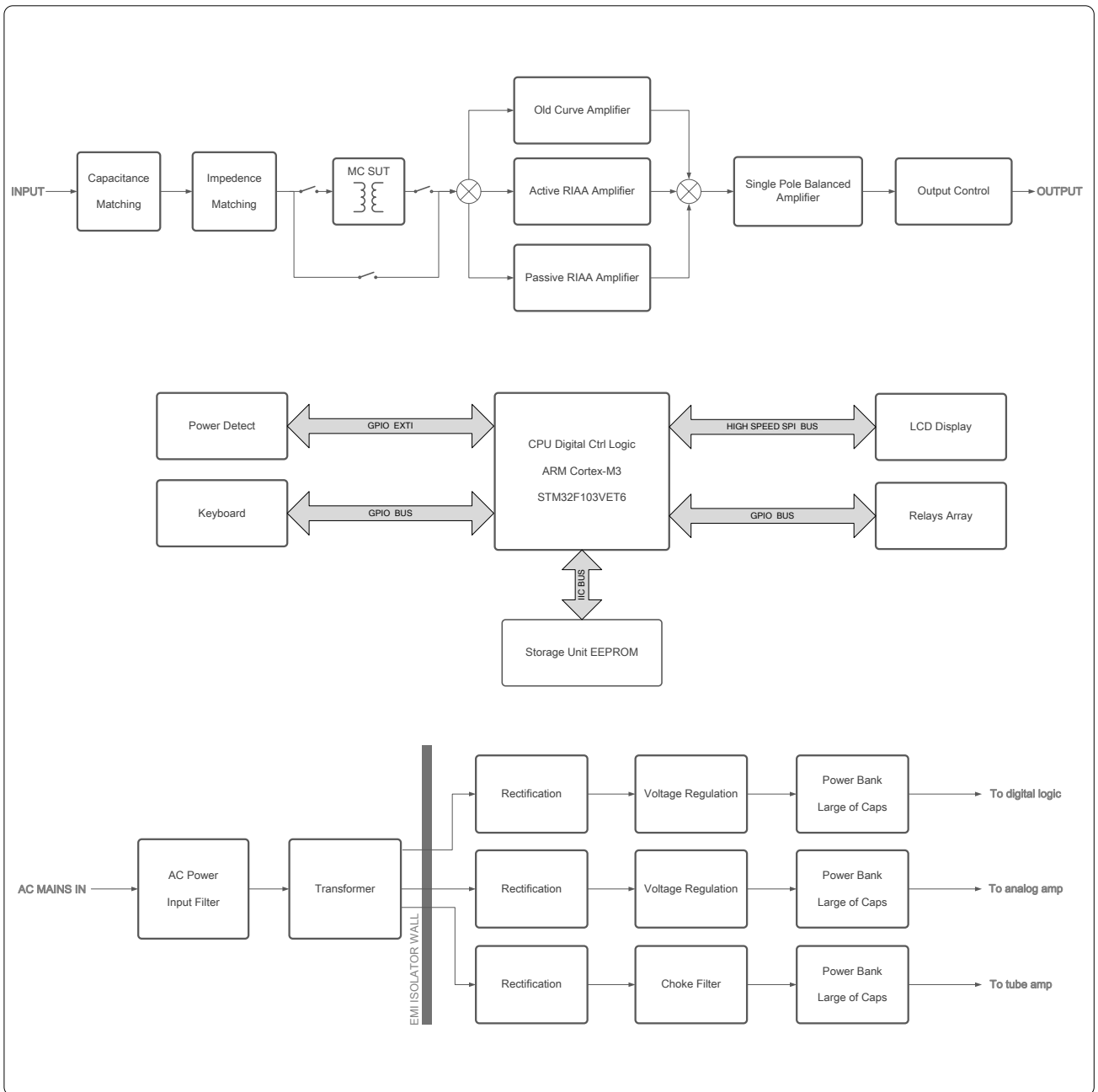
EXCELLENT CIRCUIT DESIGN

CPU digital logic control circuit and analog amplification circuit are completely separated. Digital power supply and analog power supply are completely separated each other. When the menu operation is completed for 20 seconds, the CPU digital circuit will automatically sleep in ultra-low power consumption mode and shut down power supply, completely eliminating the interference of CPU on the analog circuit. In addition, we also fully considered the compatibility design of the electronic tube circuit. In order to obtain the best effect, we invented the exclusive patent technology (SPBA : Single Pole Balanced Amplifier) and applied it to P1.

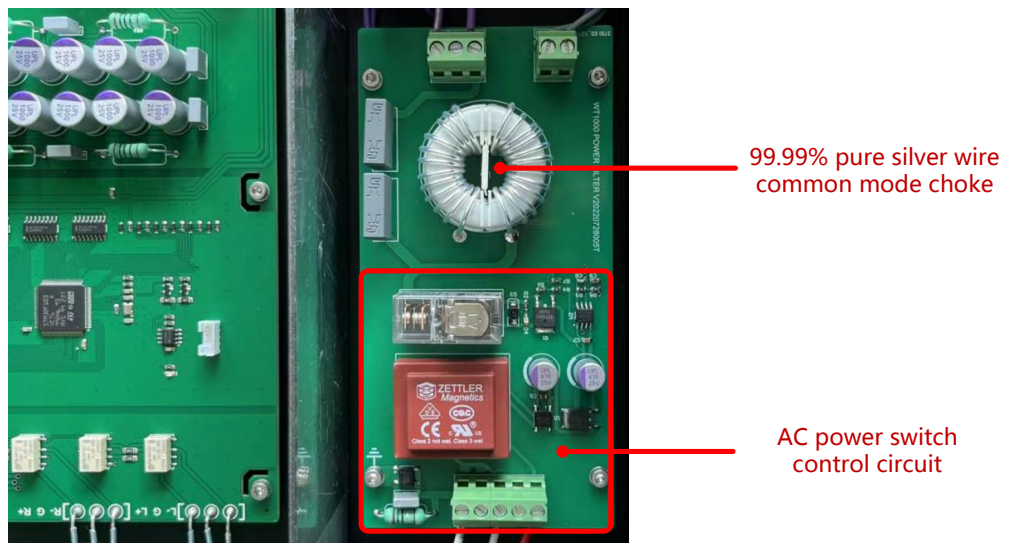
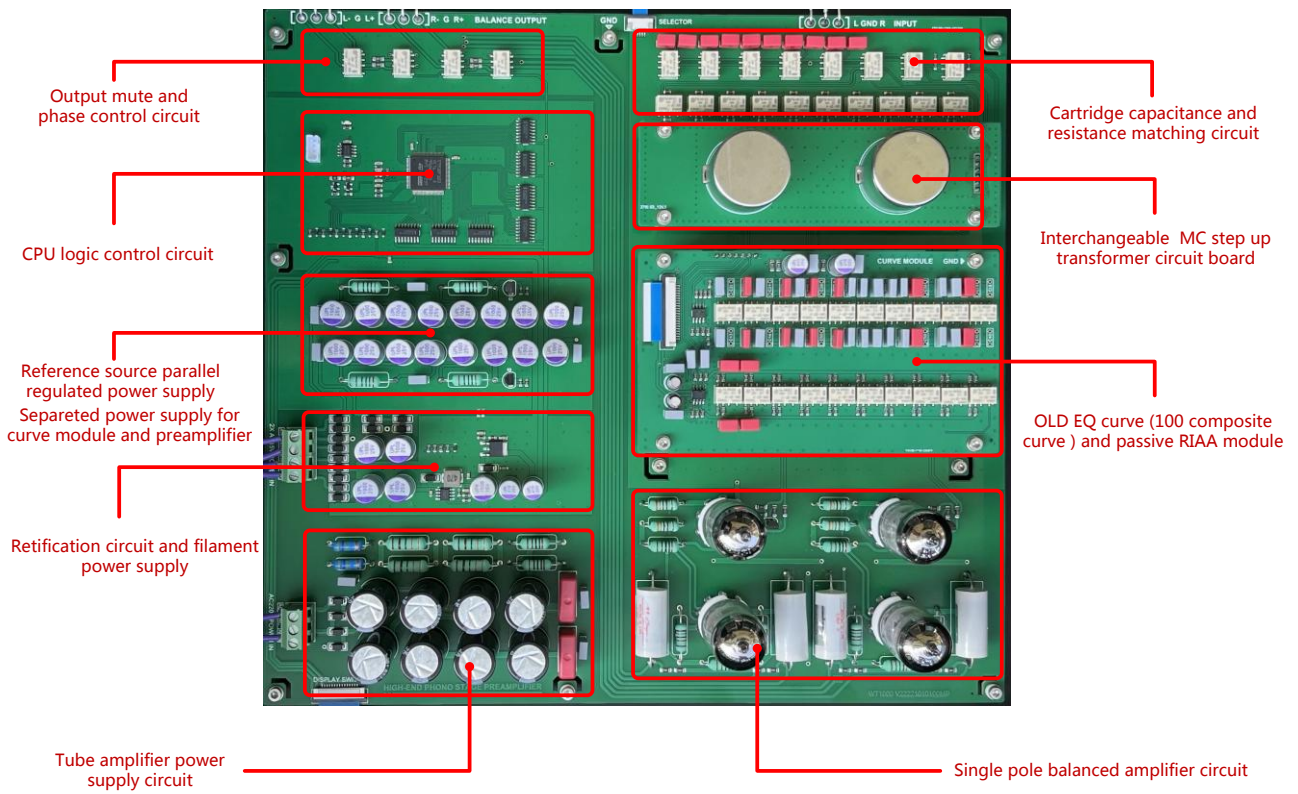
P1 Deluxe



P1 System Architecture Block Diagram



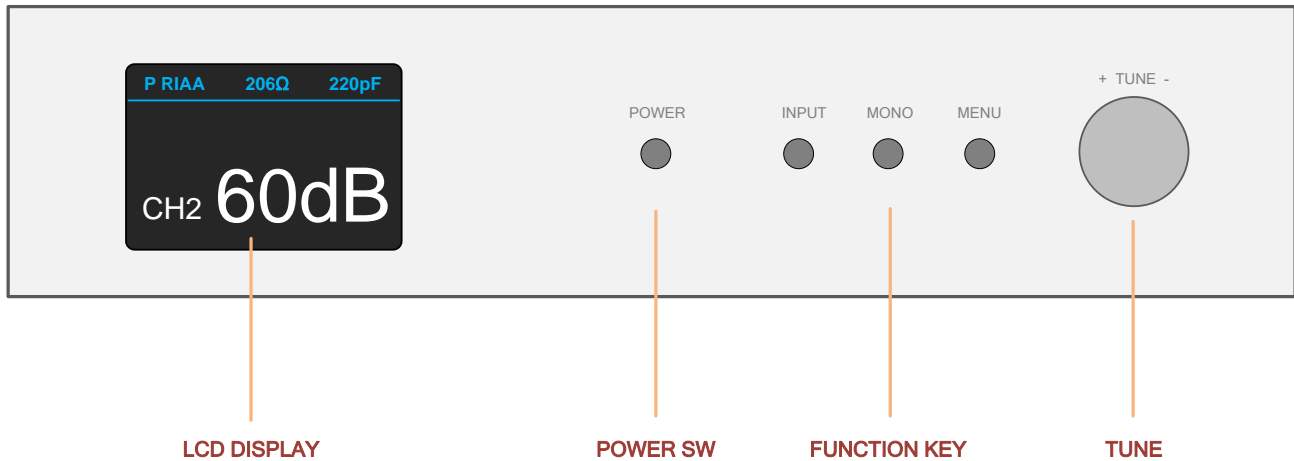
P1 Technical Feature



● TECHNICAL SPECIFICATIONS

ITEM	PARAMETER
Inputs	3 x RCA, 3 x XLR, All support MM & MC cartridge
Outputs	1 x RCA, 1 x XLR
Frequency response	20 Hz -- 20k Hz
Total Harmonic Distortion	< 0.02% max @1kHz
Signal to noise ratio	100 dB
Dynamic range	110 dB
Input impedance	1000+ options : 10Ω -- 1020Ω for MC, 47kΩ for MM
Input capacitance	32 options : 0pF – 1800pF
Curves	Active RIAA, Passive RIAA, 100 OLD EQ curve
Gain	40,42,45,50dB for MM, 55,60,65,70dB for MC
Vacuum tube	4 x ECC82 / 12AU7
Power supply	AC 110V / 220V, 50 -- 60Hz
Power consumption	40 Watts
Weight	> 12.5 kg - net
Dimensions	435mm W 100mm H 400mm D

● FRONT PANEL OVERVIEW



LCD DISPLAY

The LCD screen displays various information, and the menu displays various parameters.

POWER SW

Power switch, press once to turn on the system power, and press again to turn off the power.

INPUT KEY

Turn the input selector key the source you wish to listen up. This button is a cyclic switching logic.

MONO KEY

Click to switch between mono mode and stereo mode.

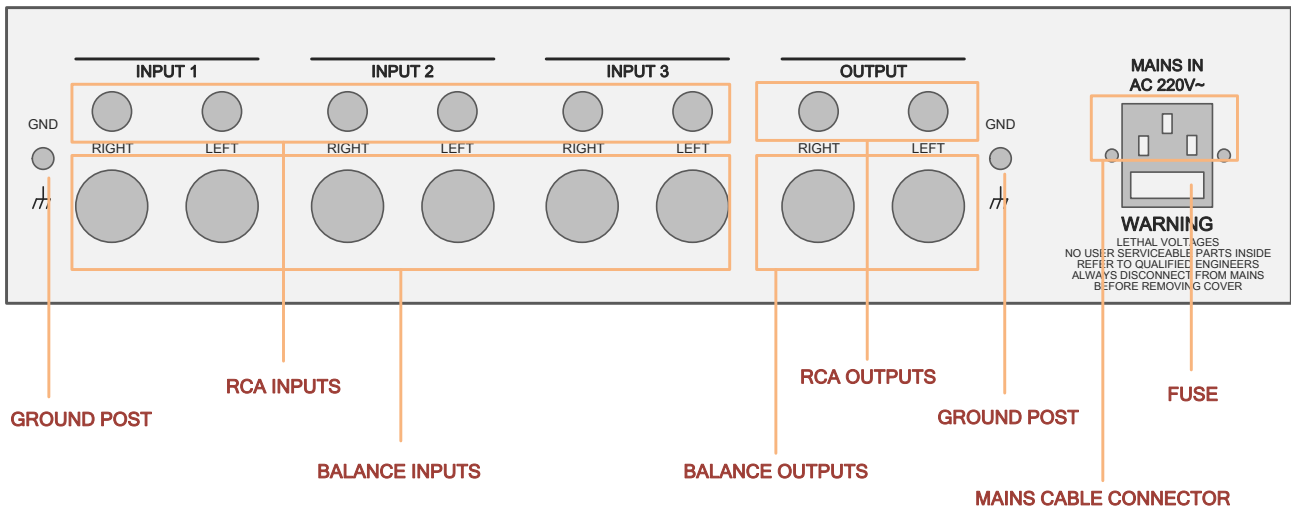
MENU KEY

Enter the menu item to set various parameters. After setting, press once to exit the menu option and resume playing music.

TUNE

Knob to quickly adjust the addition and subtraction parameters.

● REAR PANEL OVERVIEW



RCA INPUTS

Three groups RCA inputs are available, CH1 / CH2 / CH3. Each channel is equipped with 2 colour coded binding.

BALANCE INPUTS

Three groups XLR inputs are available, CH1 / CH2 / CH3.

GROUND POST

Two ground post are provided for connection to those source components that also use a separate ground terminal.

RCA OUTPUTS

Single-ended audio signal output.

BALANCE OUTPUTS

Balance audio signal output.

MAINS CABLE CONNECTOR

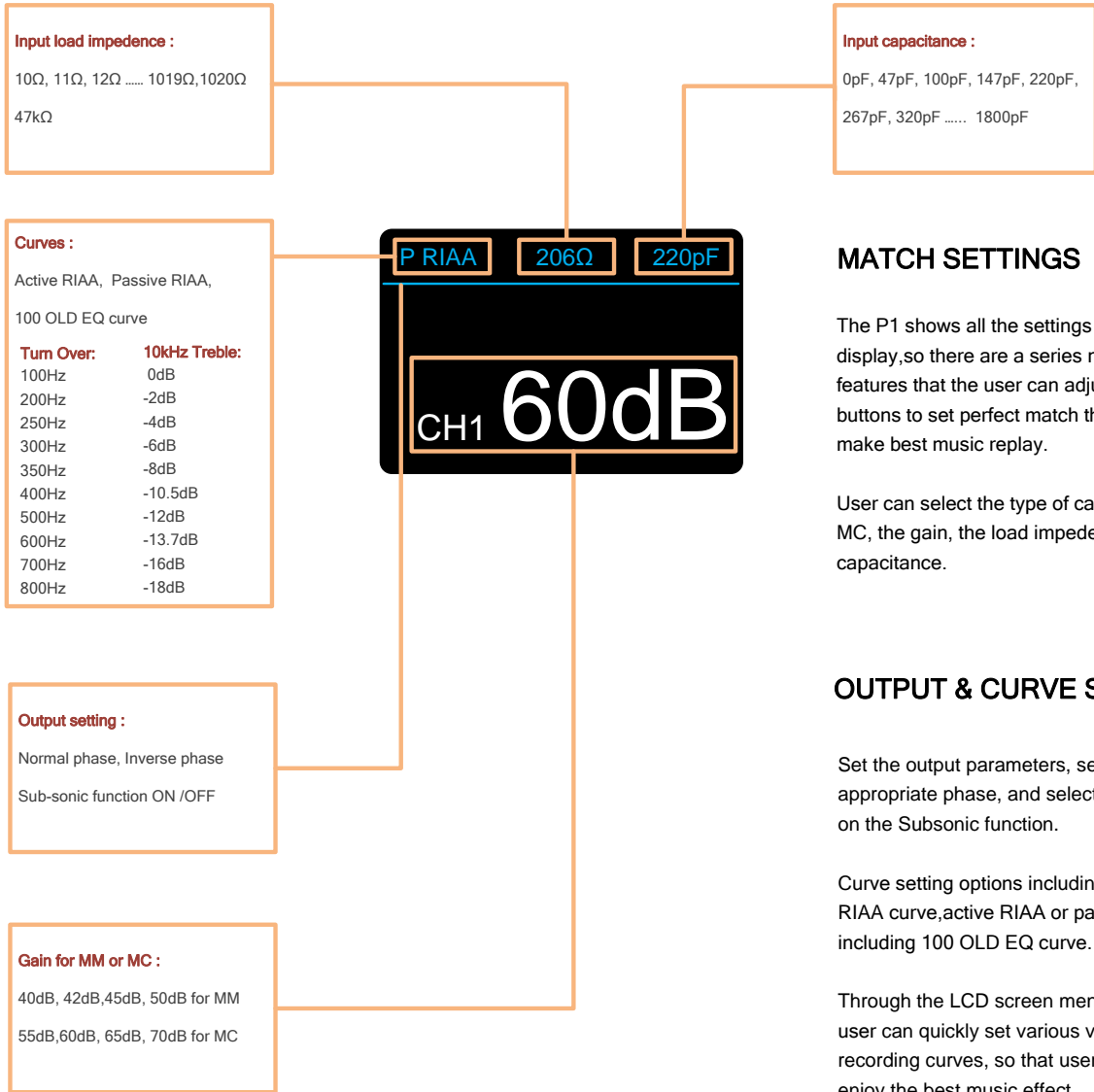
The P1 is equipped with an IEC 320 mains inlet socket. Use the supplied mains cable to connect the unit to the local mains supply.

FUSE

The mains fuse and a spare are located in the compartment next to the mains in on the rear panel.

NOTE : *The same group of RCA and XLR cannot be connected at the same time !*

● LCD DISPLAY OVERVIEW



MATCH SETTINGS

The P1 shows all the settings on the LCD display, so there are a series number of features that the user can adjust by pressing buttons to set perfect match the cartridge to make best music replay.

User can select the type of cartridge MM or MC, the gain, the load impedance and the capacitance.

OUTPUT & CURVE SETTINGS

Set the output parameters, select the appropriate phase, and select whether to turn on the Subsonic function.

Curve setting options including two standard RIAA curve, active RIAA or passive RIAA, and including 100 OLD EQ curve.

Through the LCD screen menu operation, user can quickly set various very complex recording curves, so that users can easily enjoy the best music effect.

P RIAA 206Ω 220pF

CH2 **60dB**



Menu 1

Res

Cap

Gain

Menu 2

Phase

Subsonic

Curve

Menu 3

Scan

System



Res

206 Ω

Cap

220 pF

Gain

MC **60dB**

Phase

Normal phase

Subsonic

Subsonic ON

Curve

Passive RIAA

Turn Over freq 500Hz
 Treble 10kHz -13.7dB

Scan

INPUT 1
 MATCH : 60dB 220pF 120 Ω
 OUTPUT: Normal phase Sub-OFF
 CURVE : Enable the passive RIAA

System

Manufacture Date: 2023-08-16
 Series Number: 68
 Unique ID: D2 E6 FA B9 2C

Curve

Old EQ

Turn Over freq 600Hz
 Treble 10kHz -10.5dB

WARRANTY INFORMATION

Wonder Audio Labs warrants this product to be free from defects in materials and workmanship for one year from the original date of purchase from an appointed Wonder Audio Labs dealer and agrees to covers the cost of parts and associated labour required to correct such defects, subject to terms & conditions.

This Warranty is offered to the first purchaser only.

Any valves supplied with the unit are warranted for three months from the original date of purchase.

If the product fails in normal domestic use and during the Warranty period due to the above described faults or defects, Wonder Audio Labs will at its discretion, repair or replace the item free of charge within a reasonable time once it has been returned to Wonder Audio Labs or an appointed Wonder Audio Labs dealer or service engineer.

Wonder Audio Labs is not liable for any shipping charges incurred whilst transporting the product to or from Wonder Audio Labs or an appointed Wonder Audio Labs dealer or service engineer, should the item require service or repair during or after the Warrant period.

If the product must be shipped, please use the original packaging materials and include a copy of the original sales receipt along with a note explain, In as much detail as possible, the problems you are experiencing with the unit.

Only use a reputable Courier Service or Shipping Agent, and ensure you're your product is insured during transit.

Any servicing, repairs or modifications not authorized by Wonder Audio Labs, or carried out by persons other than appointed Wonder Audio Labs service engineers Will invalidate an warranty.

This Warranty does NOT cover :

Damage sustained whilst in the possession of a shipping agent, retailer or consumer and not caused as a direct result of defects in materials or workmanship.

Damage caused by normal wear and tear.

Damage or defects caused by abnormal or unreasonable use.

Damage caused by accident, acts of nature, misuse or neglect.

Damage caused by a failure to follow the operating and installation instructions supplied with the product.

Damage caused by improper or careless cleaning.

Wonder Audio Labs reserves the right to refuse warranty for any component of which the serial number has been removed, defaced or tampered with.

C O N T A C T I N F O R M A T I O N



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