

AUDIO PHONO PREAMPLIFIER

AUDOLICI AP - 05



OWNER'S MANUAL

NOTE: Before installing your new component, please read this manual carefully as it will inform you of the product specifications, proper installation and correct operating procedures for your unit. Also included in this manual are guidelines on how to service and care for your new AUDOLICI product.

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INTRODUCTION

Dear Customer, welcome to the AUDOLICI World!

We take this opportunity to thank you for choosing one of our products.

Audolici AP 05 MC / MM Phono Pre-amplifier developed for Hi grade Audio systems. This equipment uses advanced electronic technology based on the best tradition of Tube construction practices from the 70's. It reproduces signals from MC or MM phono cartridges with excellent accuracy and resolution. The music displayed by the **AP 05** reveals a dynamic and natural Tone, both at the instrumental and at the vocal level.

As with any other of our Equipment the Sound quality will surely surprise You !

Conceptual Design

Audolici AP 05 MC / MM Hybrid Tube Phono Preamplifier is constructed as separated system included : Power Supply unit and Preamplifier Block , connected within Special multi wire link cable for remove any Noise interference from electromagnetic field.

Music signal from MC, MM cartridges (applied to the RCA Input Terminals situated on rear part) goes to **MC step up transformers (passive section)** or to **MM RIAA amplification section** , connected to **Output electron tube (Tube Drive technology)** accordingly to the **Input Selector** switcher.

MC section – This stage is employed one pair of Low Noise MC Step Up transformers , protected with Special MU metal screening can.

MM RIAA amplification section – This is Active RIAA equilization circuit , based on discrete Solid State topology and high gain Electron Tube Driver stage. This topology – is well known at early 70s of last century , as “Classic solution” , excellent compromise between minimalism and Hi gain-efficiency.

RIAA - equalization components is located at the feedback loop, which is not so deep – to avoid process generation of TIM distortion / typical for conventional OP – Amp. Devises application /.

As advantage – excellent accuracy of RIAA curve within short way for audio signal pass.

“TUBE DRIVE TECNOLOGY” system is formed by “low-mu”, hi – gain double Triode, which is brings “Vintage” Tone character of music signature at records reproduction.

Input Selector – This section designed with double section, mini “Toggle” Switcher. All commutation process are pass excellent signal transfer, without significate “cross – talk” effect between channel interference.

Power Supply Unit – Power supply based on high efficient E / I - laminated Core Power Transformer. Only full wave rectification process is used in the DC voltage sources design, include, even Electron Tube heater.

WARNINGS

- Under use never touch the Tubes: the temperature is around 200° C. There is the danger of serious burning.
- Tubes are made of glass. Avoid direct handling to prevent damage.
- Changing Tubes position can damage de device. Never remove or change Tubes.
- No user serviceable or removable parts inside. It is absolutely forbidden to open equipment except by qualified personnel.

RECOMMENDATIONS & PRECAUTIONS

Recommendations

- Always plug the Pre-amplifier to 230 V AC mains , included “ground “ terminal.
- Never use the equipment without verifying the Output “ load “ impedance.
- Avoid turning OFF the equipment for short period of time as 20 to 40 minutes.
- The Pre-amplifier needs a heating time of approximately 3 minutes for the Tube to be at the best working temperature.
- Always maintain the equipment in a horizontal position and protected from dust and humidity.

Precautions

- Never cover this equipment, there's a real risk of fire.
- Never remove Electron Tubes, even with the equipment turned OFF.
- If the Fuse breaks down , turn “off ” equipment and remove AC Power cord , before replacing it. Always use the specified kind of Fuse !
- This equipment operated at high voltage supply. Never take off the cover.
- Only technical qualified personnel are authorized to open or repair this equipment.

TECHNICAL CHARACTERISTICS

Technical Specifications

MC Phono Input

Sensitivity	0,25mV, RMS
Gain (1 kHz)	70 dB (20 dB + 50 dB)
T.H.D. (0,775V output)	0,1%
Overload margin	30 dB
Input Impedance	300 ohm

MM Phono Input

Sensitivity	2,5mV, RMS
Gain (1kHz)	50 dB
T.H.D (0,775V output)	0,1%
Overload Margin	30 dB
Input Impedance	47 k Ohm
Noise + Hum	- 85dB
Equalization Curve	RIAA 78

Outputs

Nominal Output Voltage	1,0 V RMS
Load Impedance	47 k Ohm
Channel Separation , 1 kHz	46 dB

General Features

Dimensions (W x H x D), mm	143 x 86 x 259
Package (W x H x D), mm	600 x 250 x 470
Weight N/B	6 kG / 8 kG

Components

El.Tube	6H2P EB , (ECC 85)
Transformer	12 VA, E / I laminated core
Capacitors	Axial Polyester VISHAY RDST
Connectors	Lumberg / DIN
Resistors	Carbon Type
Terminals - RCA	Gold Plated
Switchers	BULGIN

Power Requirements

AC mains voltage 50/60 Hz	230 V / 115 V
Consumption	12 VA
Fuse	0,2 A / 250V T (SLOW BLOW)

CAUTION

Equipment damage may occur with improper fuses. Never remove / insert AC-line cord when the unit is ON.

INSTALLATION

Unpacking

All AUDOLICI products shipping containers have been specially designed to protect their contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection of the shipping container. If shipping damage is found after visual inspection, take care not to destroy the evidence. If necessary, document the damage with photographs and contact the transport carrier immediately.

Carefully remove your new component from its packing carton and examine it closely for signs of shipping damage. We strongly recommend saving all original packing cartons to protect your amplifier from damage, should you wish to store it or ship it for after-sales service.

Placement

In general, the placement of your new AP-05 Pre-Amplifier is not critical. The Best placement in your system is near your Power Amplifier, to allow for short lengths of interconnect cables. Certain precautions must be taken to ensure optimum performance. Avoid extremely hot locations such as those near radiators or others heating units.

Power Requirements

The **AUDOLICI AP 05** Preamplifier , designed to operate from house current mains. The designed voltage is 230 V / 115 V at 50 / 60 Hz.

WARNING

Make no attempt to put the «AVP-01» Pre-amplifier in service without the bottom plate attached

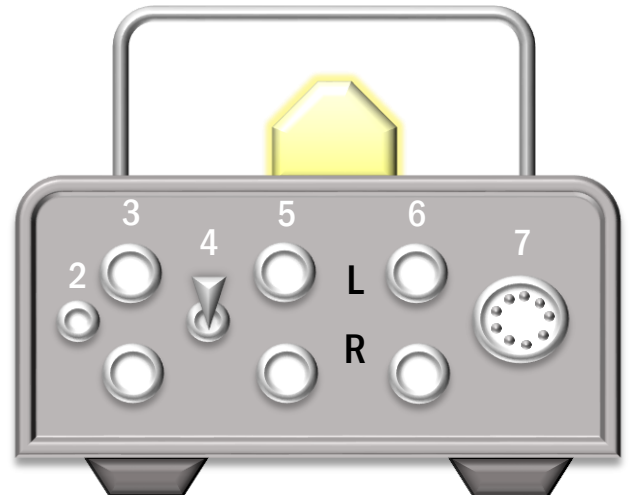
Equipment Presentation

Front Side



1. "Power" switcher ON / OFF with LED indicator

Rear side



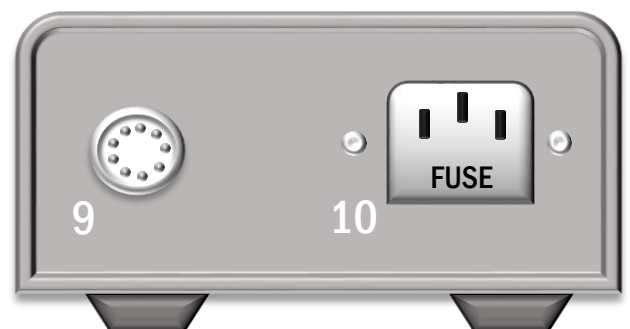
2. Ground screw
3. MC inputs (L & R) RCA sockets
4. MC / MM inputs Selector / Switcher
5. MM inputs (L & R) RCA sockets
6. Outputs (L & R) RCA sockets
7. PSU power supply DIN sockets Input

Front Side



8. Power Switcher ON / OFF

Rear side



9. PSU power supply Output
10. AC input (Fuse holder)

OPERATING MODE

To assure the quality of this equipment's sound follow the steps bellow and always use the proper quality equipment and cables.

- Connect the Pre-amplifier outputs to the Amplifier , consider next :
Output can be connected only to the Inputs with impedance over 22 kOhm,
- Connect the equipment – Phono to Input Terminals : MC Phono Cartridge (6)
or MM Phono Cartridge (7)
Select MC or MM Inputs with the special switcher (5)
- Connect the power cable to the Pre-amplifier Power Input (13) and then connect it to the power plug 115V or 230V AC (60 / 50Hz) - **see indication at the Rear panel.**
- Turn “ON” the Pre-amplifier using the Power Switch (1) on the Front panel.
- Wait approximately 3 minutes for the electron tube to heat.
- Choose the Input in the Selector (2) and Level (3) on the front panel.
- Turn “ON “ the equipment connected to the Pre-amplifier.

NOTE

Never forget to turn OFF the devices after using them

MAINTENANCE & ASSISTANCE

The Pre-amplifier AP-05 is a highly reliable equipment. However, the life time of the Electron tubes is approximately 10.000 hours. The tube replacement, when made by technical personnel, reassures the correct functioning of the equipment.

If you have any problem after the period of 10.000 hours, please contact us and we will provide you the maintenance and assistance you need.

ATTENTION

Never try to repair or change any component or parameter of this equipment



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