

*Lyrta Audio*

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**Phono  
tube preamplifier**

**Manual**

*Lyrta Audio*

## Guarantee

This preamplifier is guaranteed against any defect in material and workmanship for a period of two years from the date of purchase. Tubes are guaranteed for thirty days.

Within this period, Lyrita Audio will repair the amplifier without charge, provided that failure was not due to misuse.

A separate guarantee card is not issued with this unit. The guarantee period begins on the day you take delivery.

Model No. \_\_\_\_\_

## Specifications

Tubes, phono	Russian 6N2P / ECC83 (2 nos)
Tube, buffer	Russian 6N6P
Tube, rectifier	Russian 5C4S (5Z4G)
Frequency Response	20 Hz to 20 kHz
Distortion (THD)	less than 1%
Input	Phono in
Output	Phono out
Mains Power	230 V, 50 Hz, 150 W (max)
Size W x D x H	360 x 400 x 130 mm
Weight	10 kg

## Operation

With tube rectification, the high voltage ramps up slowly. The power switch is a 2-position switch.

- Up position is power 'OFF'.
- Flip the power switch Down to turn 'ON'.  
The green LED lights.  
The preamplifier will power up in about 15 seconds.

When making or breaking any connections, always turn off the power to the amplifier first, so that no hum or transients are transferred to the speakers.

When sitting down to a listening session, it is a good idea to let the system warm up for a half-hour. This stabilizes the circuitry, and makes it sound better.

## Description

The **Phono tube preamplifier** is a dedicated preamplifier for LP record replay.

It accepts an input from a high output Moving Coil or Moving Magnet cartridge. The correct loading is applied for the type of cartridge used, and can be customized for a specific cartridge. For low output moving coil cartridges, input transformers can be installed.

The overall design is simple and direct. Passive RIAA equalization is applied between two active gain stages. These are high gain stages using low noise Russian 6N2P tubes. A subsequent buffer stage using the Russian 6N6P tube provides high current drive and a low output impedance.

The gain stage tubes can be substituted by the ECC83 series of tubes. A switch provides for the change in heater wiring for these tubes.

All wiring is point-to-point. All gain stages operate in Class A mode. No global feedback is used.

The power supply has separate EI-Core transformers, for the heater supply to the tubes, and for the high voltage supply to the various stages. Each stage of the high voltage supply is independently filtered through chokes and RC filters. A tube rectifier is used.

The **Phono** tube preamplifier is housed in a naturally finished solid sheesham cabinet.

## Connections

### Power

Mains supply connection is through a detachable power cable with an IEC-type connector. The mains power switch is mounted on the front panel of the amplifier.

### Signal — Phono In and Phono Out

The input and output signal connections are made to the RCA sockets on the back panel of the amplifier.

## Installation

Good ventilation should be provided around the preamplifier. The tubes generate a fair amount of heat, and natural ventilation is necessary to dissipate this heat to the surroundings. The amplifier chassis will get warm, but should still be comfortable to touch.

Always place the amplifier on a firm, smooth surface.

## Fuses

**! Warning : In operation, this preamplifier has very high voltages. Always switch off, and unplug the amplifier from the mains supply before working on it. Wait for 5 minutes for the high voltages to die down, before opening the amplifier!**

The preamplifier is protected against overload by a fuse at one point only. This is the mains supply fuse, mounted on the rear panel and is easily accessed from the outside.

Mains supply fuse            1 A, 250 V (RQB 1000)

On operation of the preamplifier, if the fuse does blow, check all possible causes before replacing the fuse. If any doubt remains, contact Lyrita Audio for servicing.