

# Q-tron Audio

## Q-tron Audio RIAA14B Phono pre amplifier user manual

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Fig 1 Front panel

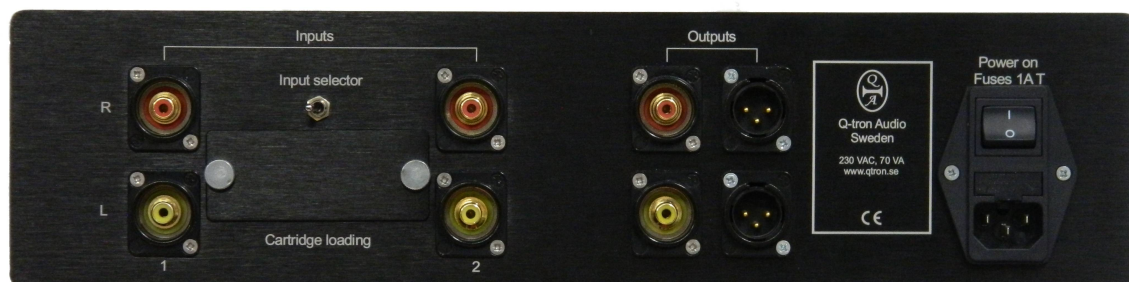


Fig 2 Rear panel

## Introduction

RIAA14B4 is an all tube, phono pre-amplifier with low noise, low distortion, accurate RIAA curve and high overload margin. The amplifier has 2 selectable inputs with individually adjustable cartridge loading.

## Content of delivery

Phono pre-amplifier RIAA14B4

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## Unpacking

Put the box on a table or other steady surface. Open the box and put the amplifier on a steady surface with the front panel facing towards you.

## Setup

Connect the amplifier to the mains voltage with a standard IEC 320 mains cable.

Connect a signal source to the input connectors.

Connect a pre-amplifier to the output connectors

## Function

The amplifier is equipped with RCA phono connectors for input and RCA phono and XLR connectors for output signals. The active circuit in the amplifier is powered by an advanced power supply with controlled start up sequences in order to prolong life of tubes.

### ***Start up procedure***

Switch on the mains switch on the back panel to position 1. Push in the front panel push button for more than 1,5 seconds then the area around the front panel push button will be lit dimmed green, after 60 seconds the area around the front panel push button will be lit brighter green and the amplifier is then ready for operation.

## Controls and connectors

### Front panel

On switch with integrated on indicator, this is a switch button which when pushed in will start the switchon sequence of the amplifier.

### Back panel

#### Input connectors left and right

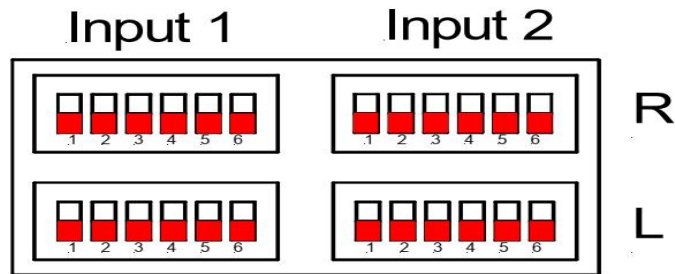
**Connectors marked 1 and 2** These connectors accept standard RCA phono plugs

#### Cartridge loading

Remove the small cover by removing the 2 screws

Resistance and capacitance can be adjusted individually for each input as follows:

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↑ = ON,(1) ↓ = OFF,(0)

| Switch          |            |            |            |           |           |           |           |           |
|-----------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| <b>1</b>        | 0          | 0          | 0          | 0         | 1         | 1         | 1         | 1         |
| <b>2</b>        | 0          | 0          | 1          | 1         | 0         | 0         | 1         | 1         |
| <b>3</b>        | 0          | 1          | 0          | 1         | 0         | 1         | 0         | 1         |
| Resistance kohm | <b>220</b> | <b>220</b> | <b>100</b> | <b>69</b> | <b>60</b> | <b>47</b> | <b>38</b> | <b>32</b> |

| Switch         |           |           |            |            |            |            |            |            |
|----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| <b>4</b>       | 0         | 0         | 0          | 0          | 1          | 1          | 1          | 1          |
| <b>5</b>       | 0         | 0         | 1          | 1          | 0          | 0          | 1          | 1          |
| <b>6</b>       | 0         | 1         | 0          | 1          | 0          | 1          | 0          | 1          |
| Capacitance pF | <b>50</b> | <b>97</b> | <b>150</b> | <b>197</b> | <b>270</b> | <b>327</b> | <b>370</b> | <b>427</b> |

0 = OFF, 1 = ON

## Input selector switch

The input selector switch is used to select input 1 or 2

## Output connectors left and right

**Connectors marked 1** These connectors accept standard RCA phono plugs

**Connectors marked 2** These connectors accept standard XLR female plugs

## Mains power inlet with integrated fuse holder and mains switch.

The power inlet accepts a standard power cord with IEC320 plug. The 2 mains fuses can be accessed if the power cord is removed and the fuse cover/holder is removed, replace

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the fuses only with fuses of same rating, (for 230VAC mains power fuse rating is 2A slow blow and for 120VAC mains power fuse rating is 4A slow blow).

The mains switch power up the amplifier if it is set to position 1, in position 0 the amplifier is disconnected from mains power.

## Performance data:

|                         |  |
|-------------------------|--|
| Gain                    | 44dB, (150 times)  |
| Input impedance         | Selectable 32 – 220 kohm<br>50 – 427pF                       |
| Output impedance        | 1 kohm   |
| RIAA Frequency response | 20 - 20kHz +- 0,2dB  |
| Noise and hum           | <-80 dBA ref. 1kHz at 5mV input                              |
| Overload margin         | >30dB  |
| Mains voltage           | 230V ± 10%   |
| Power consumption       | 70W max  |
| Dimensions              | 430 x 110 x 370 mm, (W x H x D)                              |
| Input connectors        | Gold plated RCA phono, 2 inputs                              |
| Output connectors       | Gold plated RCA phono, 1 output<br>Gold plated XLR, 1 output |
| Mains connector         | IEC320 socket with integrated<br>Power switch                |
| Weight                  | 13kg   |

## Contact information

Manufacturer

Q-tron Audio Sweden

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