

## 1. Introduction

Thank you for your purchase of Carot One FABRIZIOLO Audiophile Stereo Tube Preamplifier.

Carot One introduces the mini-size audiophile stereo preamplifier FABRIZIOLO providing high quality amplification of your audio source. Our special techniques in circuit design and component selection, FABRIZIOLO achieves the sound quality of high-end Hi Fi but in a very affordable price.

## 2. Features

- Compact design (mini-size & light weight), easy portable and setup
- An AC adaptor is bundled for continuous power supply.
- Separated preamplifier & AC adaptor design to minimize mutual interference and flexible to apply other power sources, e.g. lead-acid battery.
- Standard audio and speaker sockets compatible with most audiophile quality cables.
- Audiophile-graded parts and components
- The stylish & specially-plated aluminum case provides not only good-looking, and also provides outstanding shielding capability.

## Safety Guidelines

Important safety instructions

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions.

### **1. Take heed of warnings and instructions**

You should read all the safety and operating instructions before operating this equipment. Retain this handbook for future reference and adhere to all warnings in the handbook or on the equipment.

### **2. Water and moisture**

The presence of electricity near water can be dangerous.

Do not use the equipment near water, for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

### **3. Object or liquid entry**

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid filled objects such as vases should not be placed on the equipment.

### **4. Placing the equipment**

Only use a rack or shelf that is stable and strong enough to support the weight of this equipment.

### **5. Ventilation**

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. We recommend a minimum distance of 50mm around the sides and top of the equipment to provide adequate ventilation.

### **6 Heat**

Locate the equipment away from naked flames or heat producing appliances such as radiators, stoves or other appliances that produce heat.

## **7 Climate**

The equipment has been designed for use in moderate climates and in domestic situations.

## **8. Cleaning**

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, lint-free cloth. Do not use chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause indelible white marks.

## **9. Power sources**

Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment.

The primary method of isolating unit from the mains supply is to use the switch on the rear of the unit. The equipment must be installed in a manner that makes disconnection possible.

## **10. Power-cord protection**

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to the point where they exit from the equipment.

## **11. Power lines**

Locate any outdoor antenna/aerial away from power lines.

## **12. Non-use periods**

If the equipment is not being used for an extended period, we recommend that you unplug the power cord of the equipment from the outlet, to save power.

## **13. Abnormal smell**

If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.

## **14. Servicing**

You should not attempt to service the equipment.

Contact your dealer to arrange servicing.

## 15. Damage requiring service

The equipment should be serviced by qualified service personnel when:

- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the equipment, or
- C. the equipment has been exposed to rain, or
- D. the equipment does not appear to operate normally or exhibits a marked change in performance, or
- E. the equipment has been dropped or the enclosure damaged.

## Safety compliance

This equipment has been designed to meet the EOCENE 60065 international electrical safety standards.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## **WARNING:**

Due to the mains switch being located on the rear panel, the apparatus must be located in an open area without anything obstructing access to the mains switch.

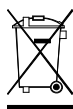
Mains plug/appliance coupler is used to disconnect device and it shall remain readily operable.

## **Correct disposal of this product**

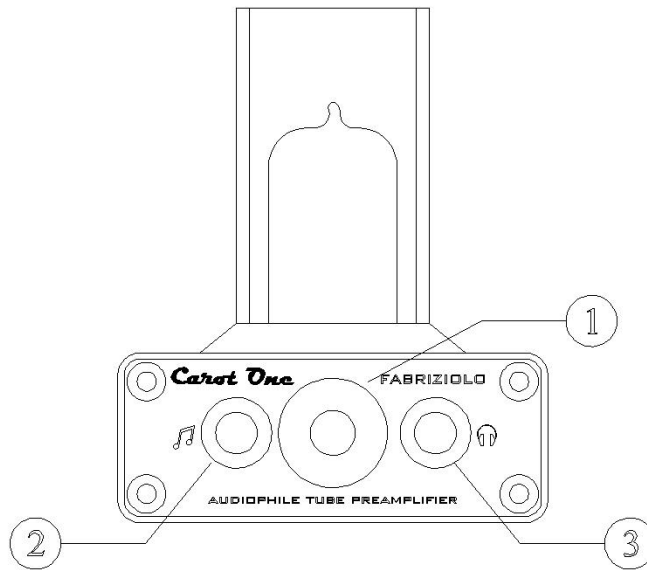
This marking indicates that this product should not be disposed with other household waste throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal and to conserve material resources, this product should be recycled responsibly.

To dispose of your product, please use your local return and collection systems or contact the retailer where the product was purchased.



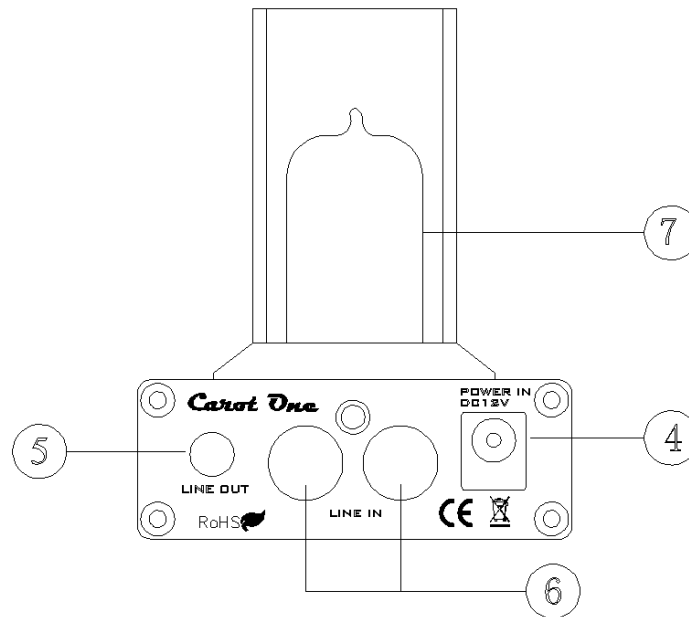
## 3. Overview



1. Volume Controller and Pre-Amp Power On/Off.
2. 3.5mm AUX input socket for MP3, etc. (over-ride rear input)
3. 3.5mm Headphone socket

### **WARNING:**

When plug in your headphone or MP3 into the mini jack (2 and 3), always plug in a vertical way. NEVER shake the mini jack as this will permanently damage the internal structure of the socket causing bad contact of signal.



4. Power Supply Socket; Plug the bundled AC Adaptor to this socket to supply power to this amplifier.
5. Audio signal line output.
6. Audio input. The audio signal input (LEFT/RIGHT) connects from audio source (e.g. CD player) to the amplifier by the RCA audio cable.
7. Vacuum Tube (6922)

**WARNING:**

When plug in the supplied mini jack cable between 5, always plug in a vertical way. NEVER shake the mini jack as this will permanently damage the internal structure of the socket causing bad contact of signal.

## 3.1 Connection

FABRIZIOLO is easy to use product. Simply connect your source (CD player, MP3 player, etc..) and amplifier / headphone following below steps, you can enjoy the high quality music in a second:

- Connect "Line Out" mini socket (5) to the "Line In" of your amplifier using the supplied mini jack to RCA audio cable.
- Connect your CD player to the "Line In" RCA socket (6) using normal RCA audio cable (not included)
- You can also connect your MP3 player to the 3.5mm AUX input socket (3) using the included mini jack cable. Once this input is used, it will over-ride the rear RCA input (6).
- You can connect your headphone to the headphone socket (9). Once this output is used, it will over-ride the rear "Line Out" socket (5)
- Connect the power adaptor to the "Power In" connector (8).

It's now all set and you are ready to enjoy your music.

## 3.2 Operation

Please follow the below steps such that you can enjoy the product without any difficulty:

- Turn the "Volume controller" (1) clockwise to turn on the pre-amplifier and **keep the level at minimum**. Now the vacuum tube (11) will slowly turn on and you will see blue light from the top window. Wait for around 15 seconds to let the vacuum tube warm up to its operation temperature.
- Play your source equipment and you can hear music from your speakers. Now, you can control the volume level by turning the "Volume controller" (1)
- There is a "3.5mm Headphone socket" (2) in the front panel. You can connect your headphone to the unit. Once your headphone is connected, the rear output will be disconnected automatically.
- **To turn off the amplifier**, turn the "Volume controller" (1) to minimum level. Then, switch off your power amplifier. Now, turn the "Volume controller" (1) to fully turn off the pre-amplifier.

## 4. Specifications

### 4.1 Specification of the Headphone Amplifier Unit

Signal-to-Noise Ratio	(SNR) 92dB
Power Output	3.0 Watts per channel on 33 Ohm Headphone
Frequency response	15 Hz - 100 kHz -1db
Input Impedance	10k Ohms
Input Audio	CD IN RCA (Left/Right) x 1 [3Vpp max.]

### 4.2 Specification of the Pre Amplifier Unit

Vacuum Tube	6DJ8/6922 series or 12AU7 series (exchangeable)
Signal-to-Noise Ratio (SNR)	92dB
THD + Noise	0.05% @ 10k ohm 0.15% @ 33 ohm
Input Audio	CD IN RCA (Left/Right) x 1 [3Vpp max.]
Power Socket	(5.5mm/2.1mm) x 1
Output Audio	OUT 3.5mm x 1
Headphone	OUT (3.5mm) x 1
Knob Audio and power switch x 1	
Power Indicator	(Blue LED under Tube Socket) x1 Volume Knob x 1
Power Supply DC 12V-13V (max.)	
Dimensions (W)76mm x (H)60mm x (D)100mm	



### 4.3 Specification of the AC Adaptor

AC Input Universal AC	100V-240V/50-60Hz
DC Output	DC 12V 3.5A (42W)
DC Plug	DC 2.1mm
Ripple & Noise	$\leq 25\text{mV}$
Over-load Protection	105%-150%
Over-voltage Protection	115%-150%
Dimensions	(L)78mm x (W)50mm x (H)33mm

## 5. Technical Notes (for professional user only)

Carot One has already pre-set the jumpers and fine-tuned the DC bias voltage of each FABRIZIOLO with the packaged vacuum tube before shipping. However, changing different tubes to taste for different sound is the great fun for many audiophiles and also a great feature of FABRIZIOLO.

There are some important notes should be aware before changing tubes.

FABRIZIOLO supports two major tube series:

- (1) 6DJ8, 6922, 6N11, 6H23n, ECC88, E88CC, etc., and
- (2) 12AU7, 5963, 5814, ECC82, etc.

If you change the tube within the same series, it needs to re-tune the DC bias voltages ONLY.

If you change the tube from another series, it needs both to re-tune the DC bias voltages and re-set the jumpers. Otherwise, the tube may be burnt out.

**(Remember to power OFF the machine before setting)**

## 5.1 DC Bias Voltage Tuning

Since each tube might deviate a bit in parameters, especially from different series, it needs to re-tune the DC bias voltages to guarantee the machine is working in the best point and performing the best sound quality.

There are two blue precise adjustable potentiometers (P1, P2) for tuning the DC bias voltage of each channel. The DC bias has been tuned in factory. But after run-in for a period or changed another tube, it would be deviated that the fine-tuning is needed.

Before you tune these, you need a screwdriver (take off the case), a small screwdriver. (Turn the screw of the potentiometer) and a (digital) multi-meter to detect the DC bias voltage:

1. Use screwdriver to take out the two upper level screws in the front panel & another two screws in the back panel. Then, open the upper case.
2. Power ON the machine with no audio signal input.
3. Wait at least 5 minutes for the machine to run in.
4. Use the multi-meter to detect the DC voltage between the test point A (L) [red] in the PCB & the GND [black] (e.g. the ring of the power switch or the outer ring of those RCA sockets) of the LEFT channel.
5. Turn the screw on the top of the P1 potentiometer by a small screwdriver clockwise or anticlockwise until the voltage as close as to +6~+8V.
6. Then, repeat step 4 and 5 for the RIGHT channel by changing the test point to A (R) [red] and turning the screw on the top of the P2 potentiometer.
7. Power OFF the amplifier.
8. Cover back the upper case and tighten the screws.

## 6. Troubleshooting

If your machine is out of order, it may not be very serious. Before you call your local distributor or us to repair, you are suggested to check the following:

SYMPTOM	POSSIBLE CAUSE	REMEDY
cannot power ON indicator not bright	power cords not properly connected	properly connect the power cords
	power switch is OFF	switch ON the power
no sound at all	the volume level is too low	turn volume level higher
	The audio cable not properly connected	properly connect the audio cable
	the audio source (e.g. CD player) not started playing	start playing the audio source
Hum	tube not fully pushed in	Insert Tube securely
	audio connector plug not fully pushed in	Insert plug securely
	incorrect input switch position	check the corresponding input switch
sound out(s)	loose connection	check input and output connections. When all has been double-checked reduce volume and switch unit back on

## 7. Accessories

- . 3.5MM jumper cable x 1
- . 3.5MM to RCA jumper cable x 1
- . Tube x1
- . +12V power supply x 1
- . User Guide x 1

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