

**Brunetti**<sup>®</sup>

*Tube amplification*

# USER'S MANUAL

# *Overtone<sup>2</sup>*

*Ground tube preamp/booster*

Before using, please take few minutes to get familiar with your Amplifier and carefully read the advices, explanations hereby reported. All our units are hand made. For this reason you could find design or sound differences. All this as guarantee that you bought a true hand-made product.

*Finest Italian handmade*

CONGRATULATION FOR YOUR CHOICE!

## **Overtone** Footpedal Preamp / Booster

To enrich with a lot of colours your sound you don't need to have very complex equipments, it is enough that you play with your usual equipment passing through **Overtone**

This unit has two completely separated channels that allow you to know the Brunetti sound very well.

**Overtone** can create innumerable sound combinations: from the warm and fat tones to the most aggressive metal. You can play it as a preamp, connected to a power amp; or as a speaker emulation going directly to the recording or mixing system. You can even use both those functions at the same time.

Thanks to its use flexibility and to its winning sound, It is one of the most "true" and powerfull foot pedal.

**Overtone** is all tube.

### TECHNICAL SPECIFICATIONS

- All tube signal path
- Eq. controls separated for each channel
- Line out
- Emulated line out for recording or mixing
- Instrument level out for booster use
- 2 Channels: Clean / Clean + Crunch - Overdrive
- Tubes: 2 x 12AX7
- Dimensions : 10 x 17 x 27 cm.
- Weight: 2 Kg.

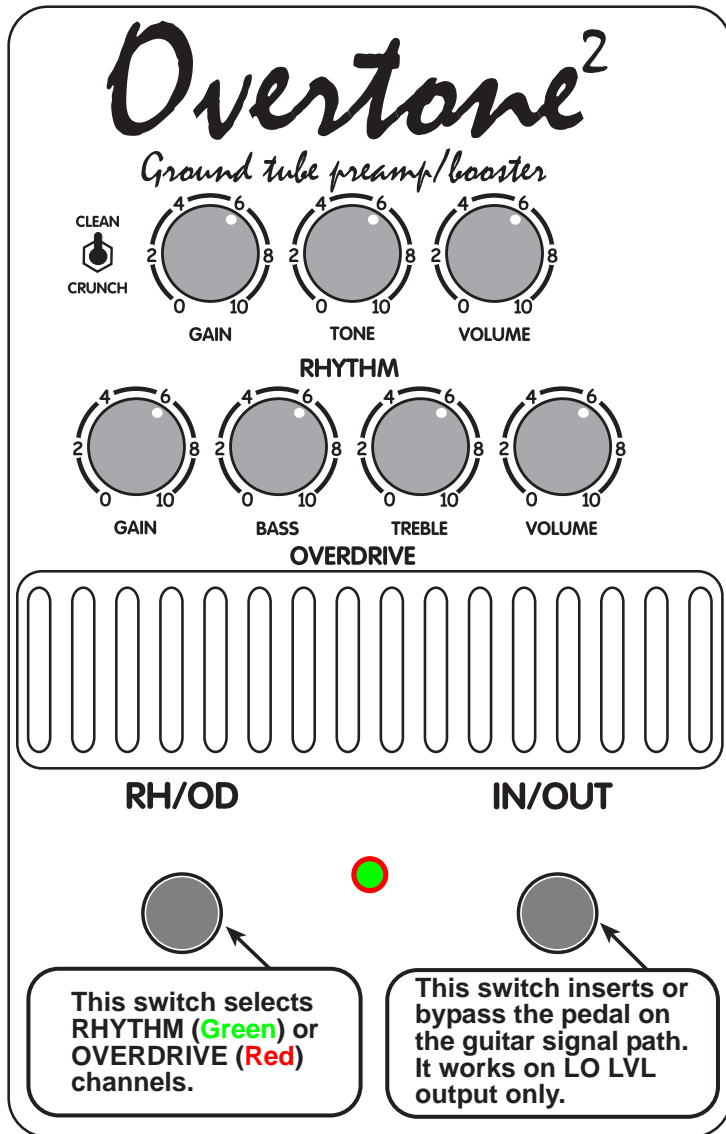
### EQUIPMENT

- Power cable
- Instruction manual
- Warranty Card

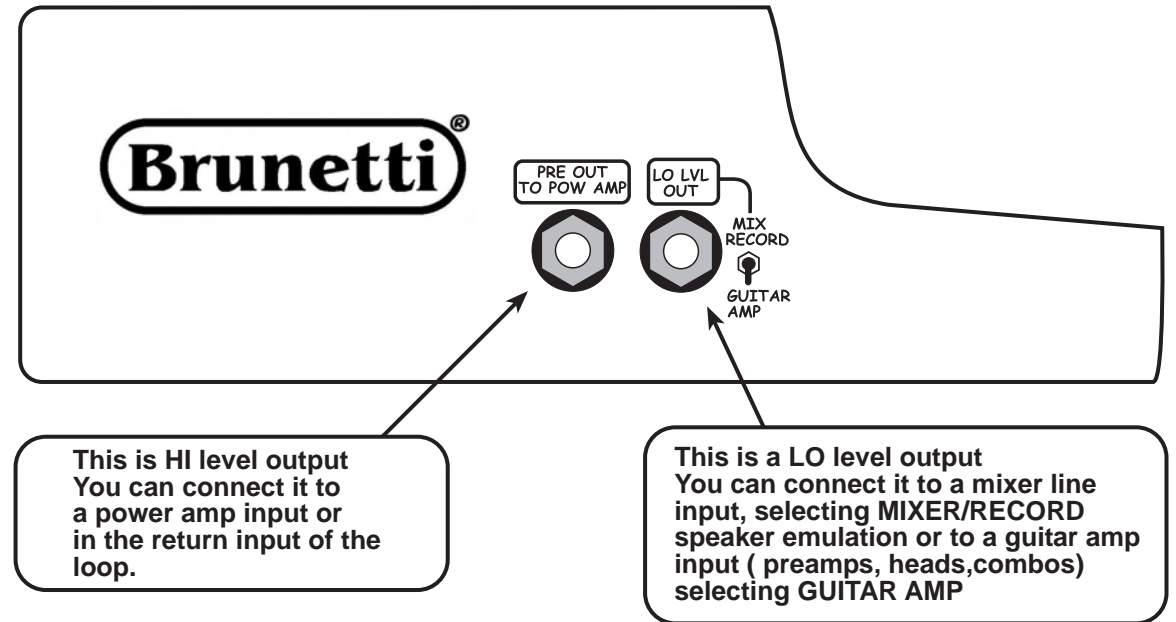
### ELECTRIC CONNECTION

- Electric safety and correct work are guarantee when the unit is correctly earthed.**
- Ensure that voltage value printed on the rear panel correspond to available current.**

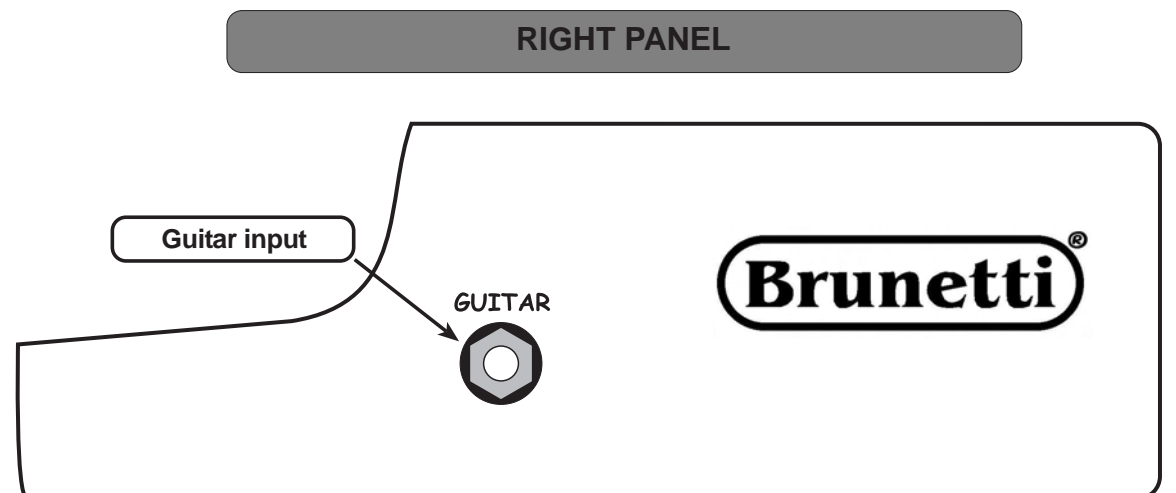
## FRONT PANEL



## LEFT PANEL



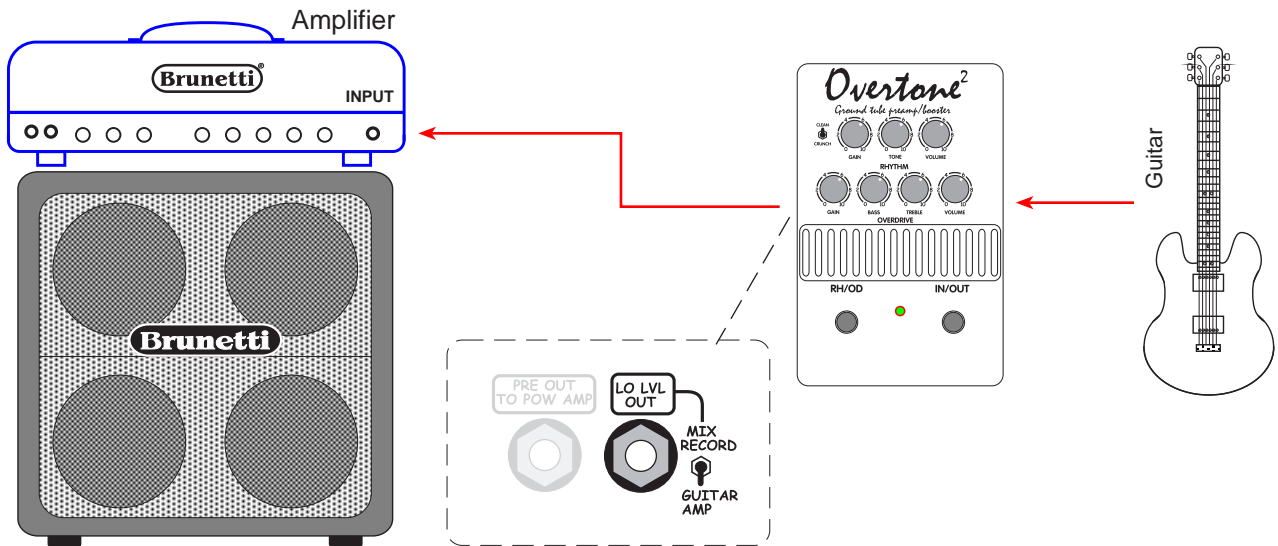
## RIGHT PANEL



# HOW TO USE Overtone

## A) BOOSTER PEDAL

Using the output LO LVL OUT set the switch on Guitar Amp position and get into the input of an amplifier. In this configuration Overtone becomes a booster pedal.

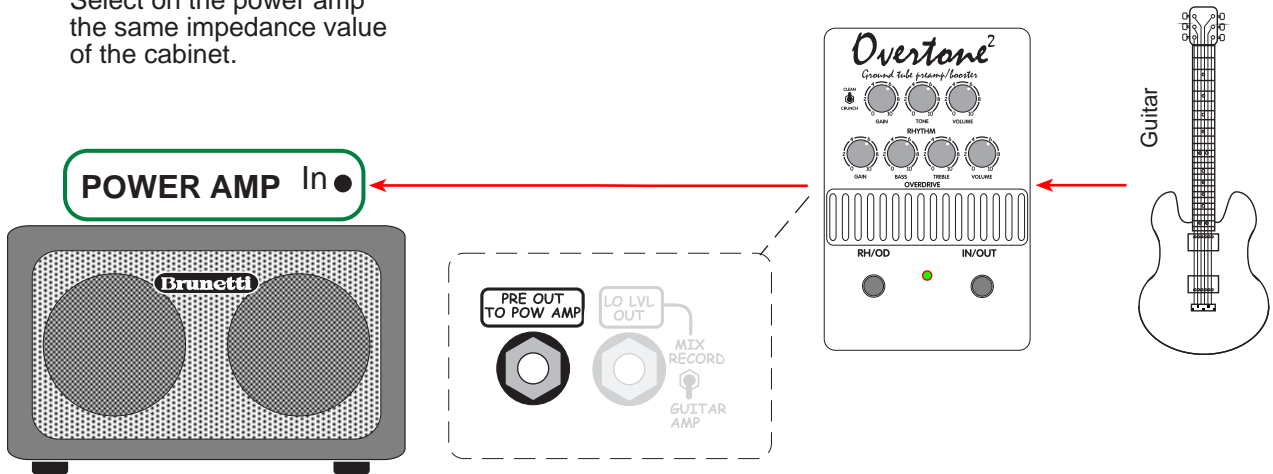


## B) PREAMPLIFIER

Using the Hi Level output PRE OUT TO POW AMP you can control a power amplifier with his relative cabinet or get into the Return of an amplifier using his power amp. In this configuration the Bypass function can't be used.

Select on the power amp the same impedance value of the cabinet.

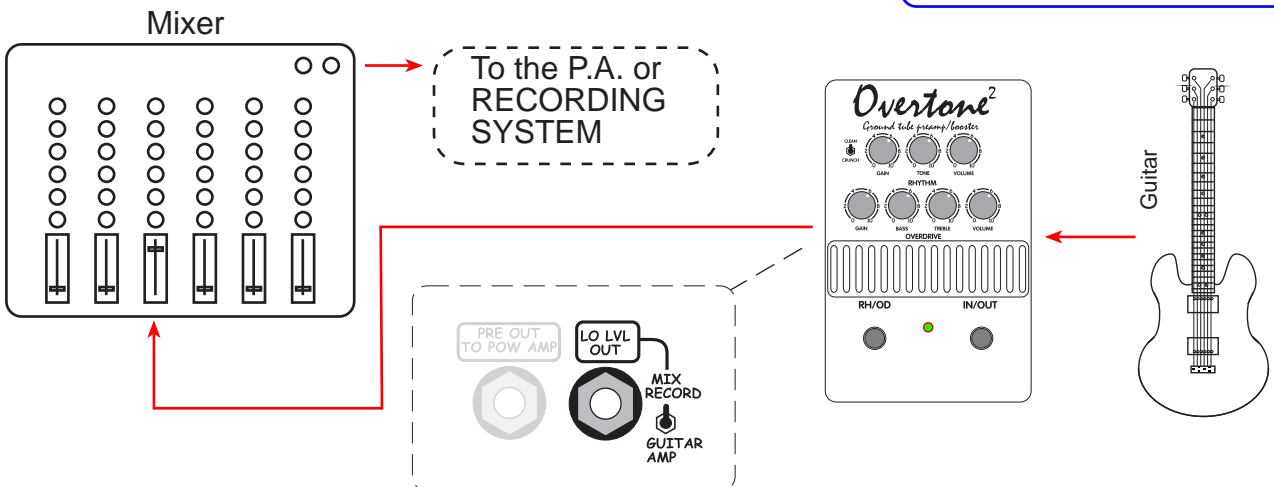
You may use A) and B) solutions in the same time.



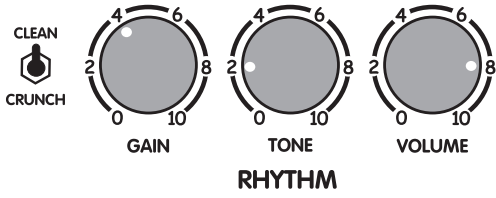
## C) PREAMPLIFIER IN A MIXER

Using the output LO LVL OUT set the switch on Mix Record position and get directly into the Mixer or a Recording System. With this output you play with speaker emulator.

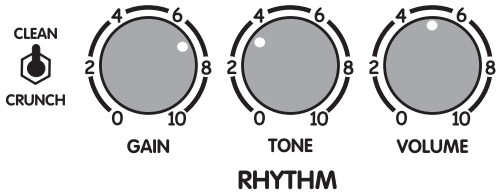
You may use B) and C) solutions in the same time.



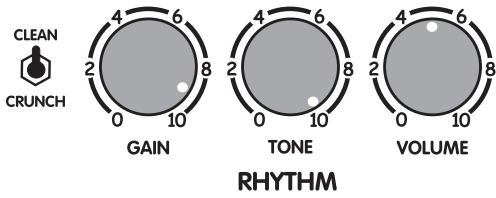
## SETTING RHYTHM



1

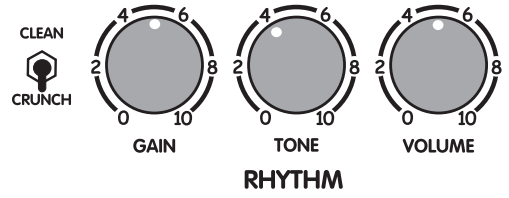


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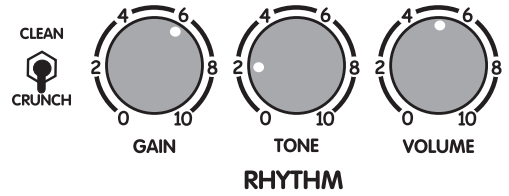


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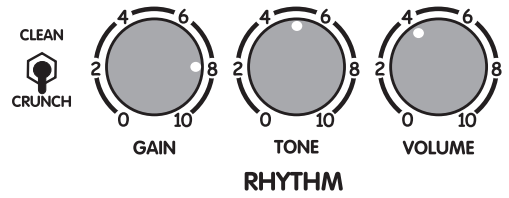
## SETTING RHYTHM + CRUNCH



4



5



6

## SETTING OVERDRIVE



7



10



8



11



9



12

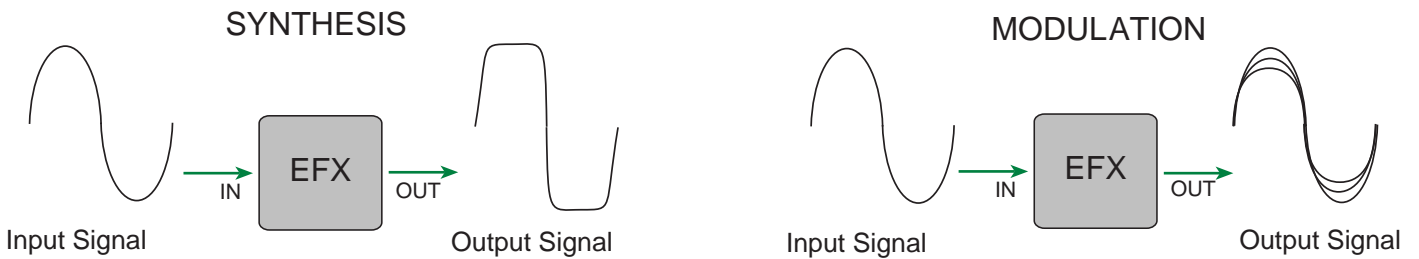
## SYNTHESIS EFFECTS

The main characteristic of the synthesis effect (see example) is to modify the signal wave form. (i.e. the distortion effects).

This kind of effect should be used between the guitar and the input of your amp, in a standard connection chain.

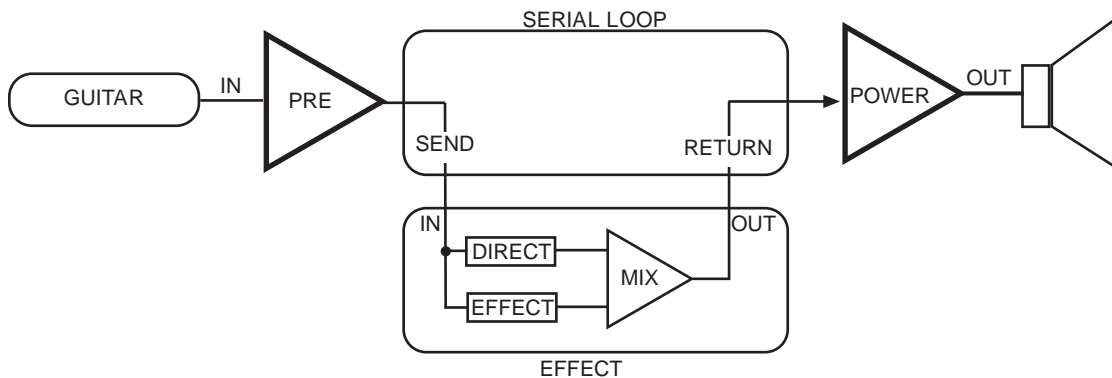
## MODULATION EFFECTS

The main characteristic of the modulation effect (see example) is to add and/or lay other wave forms to the signal. This kind of effect should be used in the loop effect of your amp, that is between the Preamp and the Power amp.



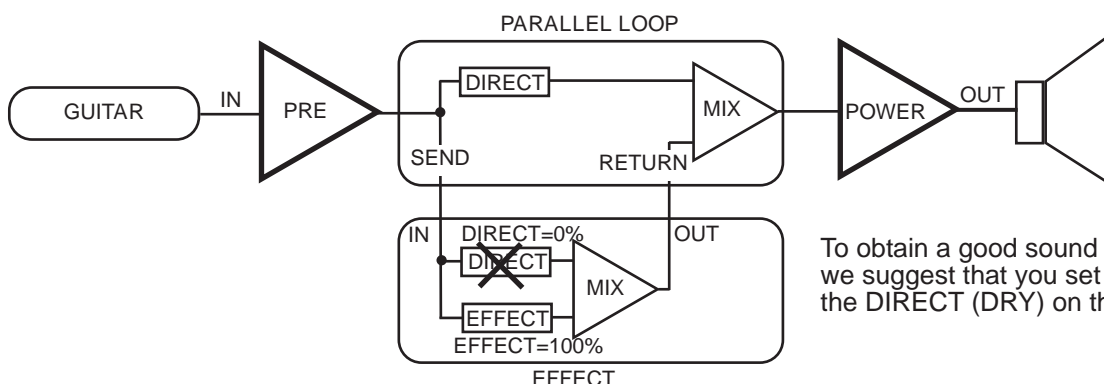
## SERIAL LOOP

In a Serial Loop all the output signal coming from the Preamp passes through the effect. In this case on your effect unit it is necessary to adjust the balance between the DIRECT (DRY) and the EFFECT (WET).



## PARALLEL LOOP

In a Parallel Loop only a part of the direct sound passes through the loop effect, without going out from the Send. This part of the signal will be mixed with the signal that comes from the Return. In this connection the quality of the effect is not so important as it is in the Serial Loop connection, because the Direct will be kept by the loop (see drawing).



To obtain a good sound we suggest that you set on zero "0" the DIRECT (DRY) on the effect.

### PREAMP TUBES

The preamp tubes are used to preamplify the signal. They usually last the entire life of the amplifier.

The possible problems of these kind of tubes are: microphonics and noise.

#### Microphonics

The microphonics is the ability of a tube to reproduce external vibrations further the signal. This phenomenon can be much more evident in high gain stage like the distortion channels.

Lightly tapping on the glass side of the preamp tubes, while the head is on, you'll hear a stroke through the speaker, this is normal don't worry.

But if you hear hi frequencies (ringing or squealing) and in some case a distorted sound, it means that the tube is microphonics.

You will note that the first tube is more subject to reproduce this stroke more than the others, because it's at the begin of the preamplification chain.

#### Noise

Tube has an own intrinsic floor noise that comes from its work and construction.

During tube life this noise may increase creating a sort of a ringing or squealing. In these two cases, you have to find the defective tube and replace it with a new one.

The preamp tube doesn't need to be selected, (normally this control has been made by the constructor), but be sure to replace with good quality tubes.

We suggest that you use tubes of same brand and model.

### POWER TUBES

Power tubes are the last amplification stage before the out transformer and speaker out, and they can get exhausted.

Normally a power tube working in A/B class lasts 800 - 1000 hours. It depends also on the volume used.

In an amplifier with same power, in A class, the tube lasts 600 - 800 hours. In this class work tubes are more stressed.

#### When replace power tubes

You can recognize an exhausted tube because there's a loss of power and volume. Sound has not the same impact, in particular on low frequencies.

Main faults on this kind of tube are :

- short inside the tube. In this case normally the HT fuse will blow.
- tube light off. It's easy to recognize this problem tube because you can't see any light inside the tube.
- tube become glowing. In this case there's an increase of noise (hum) and sound will be distorted.

In all the above cases tubes can't be fixed, and have to be replaced.

If the problem tube has worked more than 1 year, we suggest that you replace all power tubes, this to guarantee the best performance of your amp.

If the problem tube has less than 1 year you can replace only that one.

#### Warning!!

You have to mount only selected and matched tubes, with the same characteristics of the tube supplied on your amplifier. See the "Matching Reference" label on the tube.

If you mount tubes with different "Matching Reference" is necessary to adjust the Bias, to let the amp work properly.

### CLEANING

Before any kind of cleaning operation, disconnect the appliance from the electric supply.

- Do not throw water jets directly on the appliance.
- Do not use water steams to clean the appliance.
- Do not use solvents to clean the appliance.

Surface Cleaning: system suggested

Satin Aluminium: Soft cloth + product for metal parts

Stainless steel : Paper + product for chrome parts

### WARNINGS

- The manufacturer declines all responsibility for any kind of damage to persons, things and/or animals resulting from a wrong use of the appliance.
- The appliance' s conformity is proved by CE symbol on the rear side.
- The manufacturer reserves the right to make any useful and essential change to the products without compromise the main safety and working features.
- Do not use the appliance barefoot.
- Do not touch the appliance with wet or moist hands or feet.
- Do not allow children or incompetents to use the appliance.
- Do not leave inflammable materials near to the appliance.
- Do not pull up the appliance by control knobs.
- Read carefully, compile and deliver the warranty attached to the appliance.
- The appliance' s repair may be done during the warranty period only by us, in our laboratory, or by authorized staff, in conformity to the national previsions in force.
- Control periodically all cables supplied with the appliance, if they result damaged, you have to replace them immediately with another one with the same characteristics.
- In case of damage contact the shop where you bought the appliance.
- The appliance must be earthed in conformity to the national previsions in force.

For any further information and/or support contact us.

#### **Brunetti Marco & C. S.a.s**

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