

# EQ-1000 PLATEAMP

## USER MANUAL

### EQ-1000



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# Safety Instructions



## WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**1. Read Instructions** — All the safety and operation instructions should be read before the Earthquake Component is operated.

**2. Retain Instructions** — The safety and operating instructions should be kept for future reference.

**3. Heed Warnings** — All warnings on the Components in these operating instructions should be followed.

**4. Follow Instructions** — All operating and other instructions should be followed.

**5. Water and Moisture** — The Component should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

**6. Ventilation** — The Component should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.

**7. Heat** — The Component should be situated away from heat sources such as radiator, or other devices which produce heat.

**8. Power Sources** — The Component should be connected to a power supply only of the type described in these operation instructions or as marked on the Component.

**9. Power Cord Protection** — Power-supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit the Component.

**10. Cleaning** — The Components should be cleaned only as recommended in this manual.

**11. Non-use Periods** — The power cord of the Component should be unplugged from the outlet when unused for a long period of time.

**12. Object and Liquid Entry** — Care should be taken so that objects do not fall into and liquids are not spilled inside of the Component.

**13. Damage Requiring Service** — The Component should be served only by EQ qualified serviced personnel when:

- a. The power-supply cord or the plug has been damaged; or
- b. Objects have fallen, or liquid has spilled into the Component; or
- c. The Component has been exposed to rain; or
- d. The Component does not appear to operate normally or exhibits a marked change in performance; or
- e. The Component has been dropped, or its cabinet damaged.

**14. Servicing** — The user should not attempt to service the Component beyond those means described in this operating manual. All other servicing should be referred to qualified Earthquake service personnel.

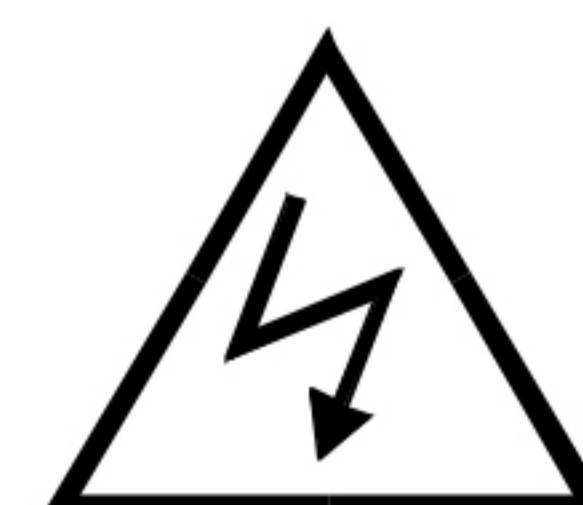
**15. To Prevent Electric Shock** — Do not use this polarized plug with an extension cord, receptacles of other outlet unless the blades can be fully inserted to prevent blade exposure.

**16. Grounding or Polarization** — Precautions should be taken so that the grounding or polarization means of the Component is not defeated.

This apparatus does not exceed the Class A/Class B (which ever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to a person.

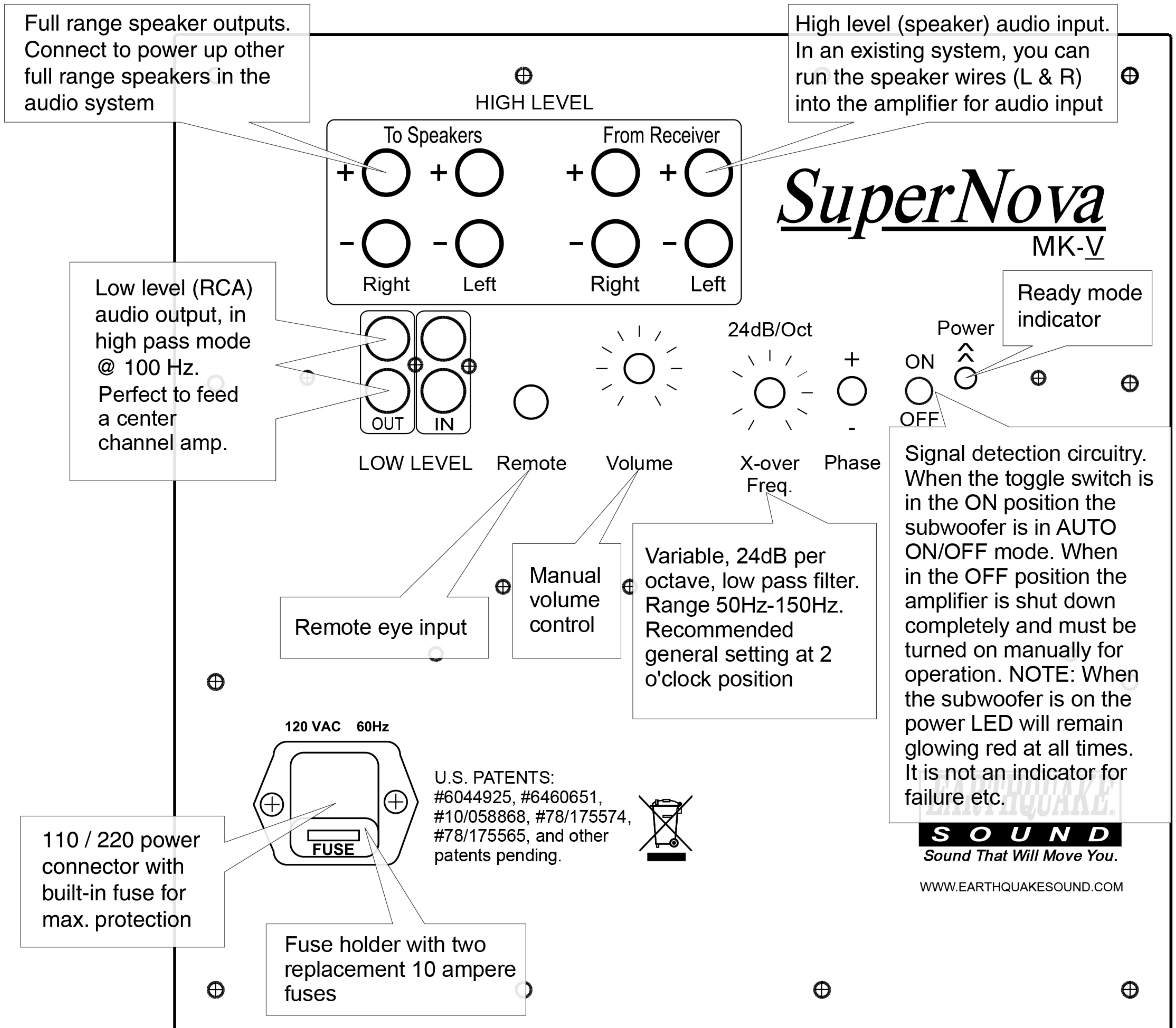
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# Overview - EQ 1000 Plateamp

The EQ-1000 Plateamp is hand assembled using high density fiber boards. The cabinet is crafted to exact tolerance for near nil vibration. The EQ-1000's unsurpassed performance stems from:

## Class "D" Amplifier



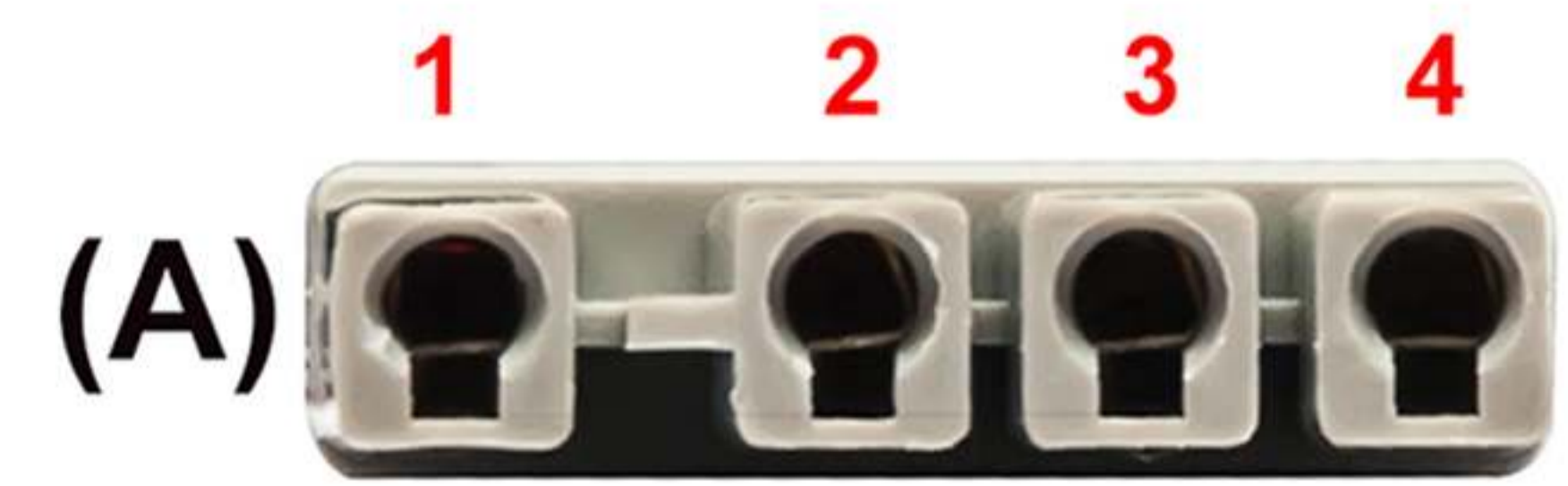
- \*600 watts class "D", high efficiency (99%) power amplifier
- \*Optical Distortion Limiting circuitry (ODL). A patented process that converts the analog audio signal to light and optically couple it to the driver stage. When users set the gain too high, the ODL prevents the amp from clipping; thus limiting distortion to near nil levels
- \*24 dB / Octave variable filter from 50 Hz to 150 Hz
- \*Low level inputs/outputs
- \*High level inputs/outputs
- \*Auto Signal Sensing
- \*0-180° Phase Switch
- \*Volume Control
- \*Vari-position remote control sensor allows users to position the remote eye anywhere in the room.

# Connecting your Transformer to the EQ-1000

## Overview of Transformer Parts

Install the transformer inside your subwoofer enclosure with four (4) screws. Please make sure that the transformer wires will be able to reach the amplifier.

NOTE: Both plugs have special spacing between pin 1 and 2, starting from the left side of each plug.



## Installing the plugs from the transformer to the EQ-1000

### Installing plug (A) to the mainboard:

Please pay attention to where the spacing is between pin 1 and 2 (on the plug) and align them to fit the corresponding terminals on the mainboard of the EQ-1000 Plateamp.

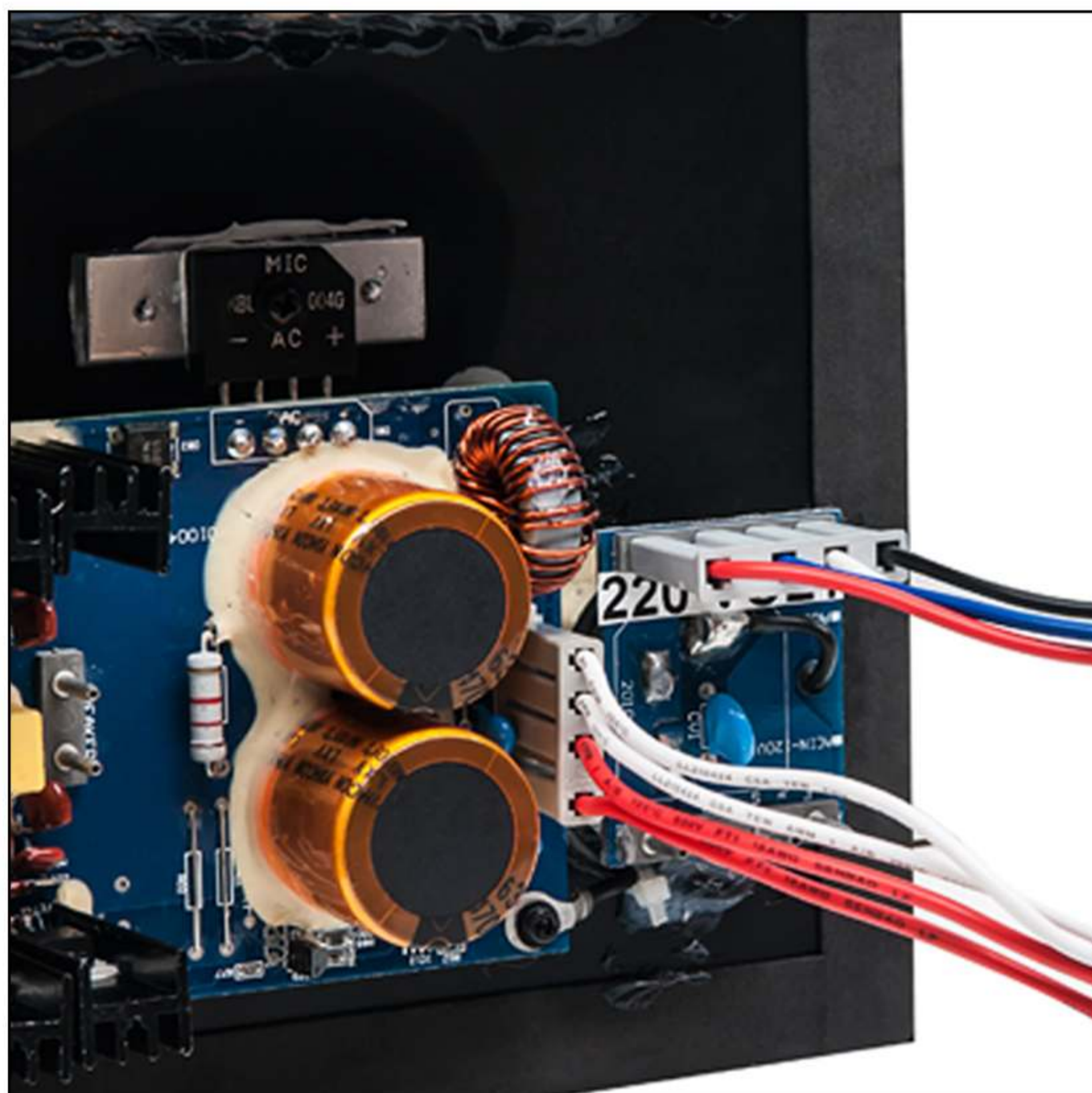
### Installing plug (B) to the powerboard:

Please pay attention to where the spacing is between pin 1 and 2 (on the plug) and align them to fit the corresponding terminals on the powerboard of the EQ-1000 Plateamp.

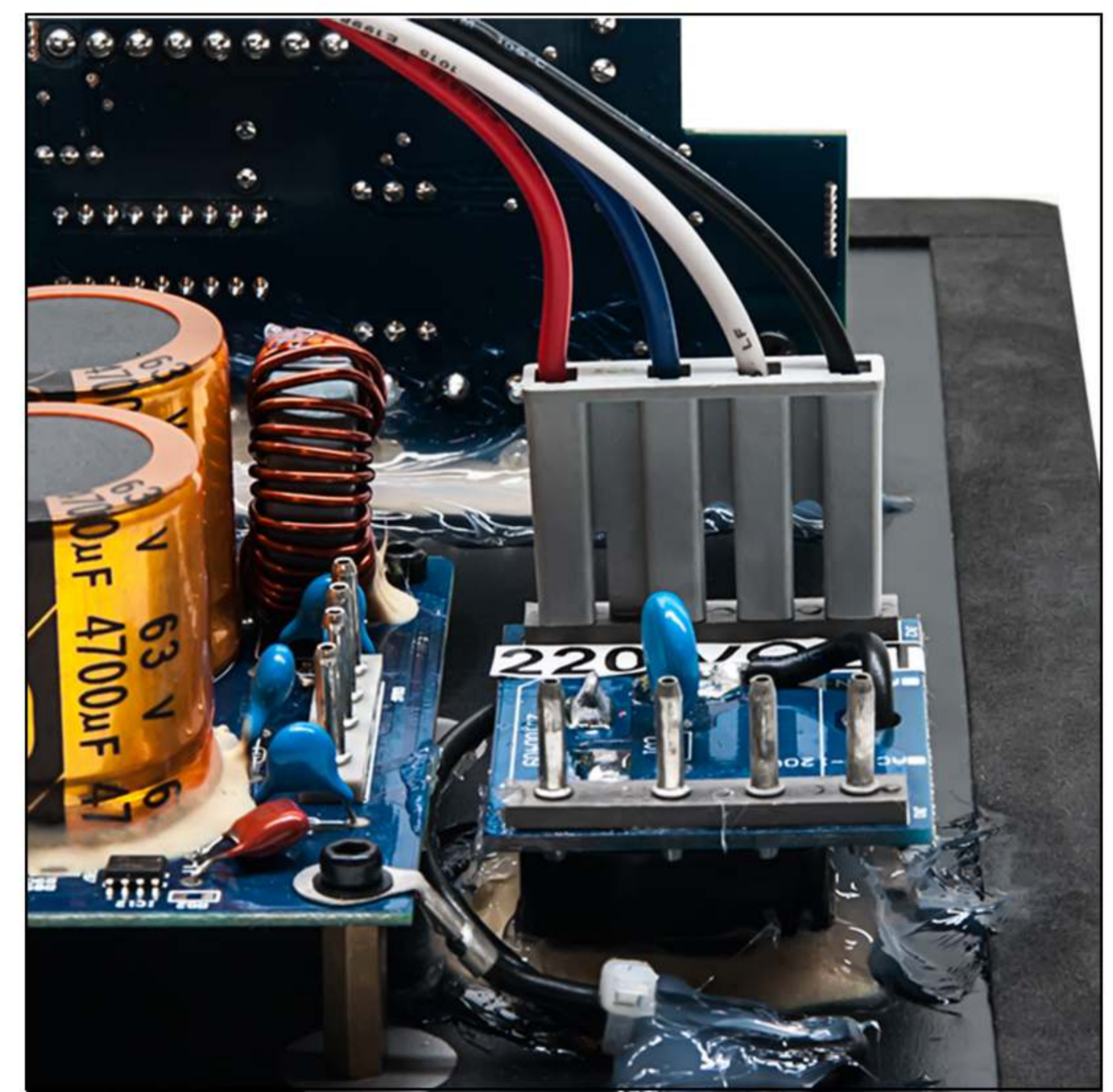
If you are using 220-240V AC, make sure to install plug (B) on the upper terminals.



*Installing plug (A) to the mainboard*



*Overview of fully installed plugs on the EQ-1000*

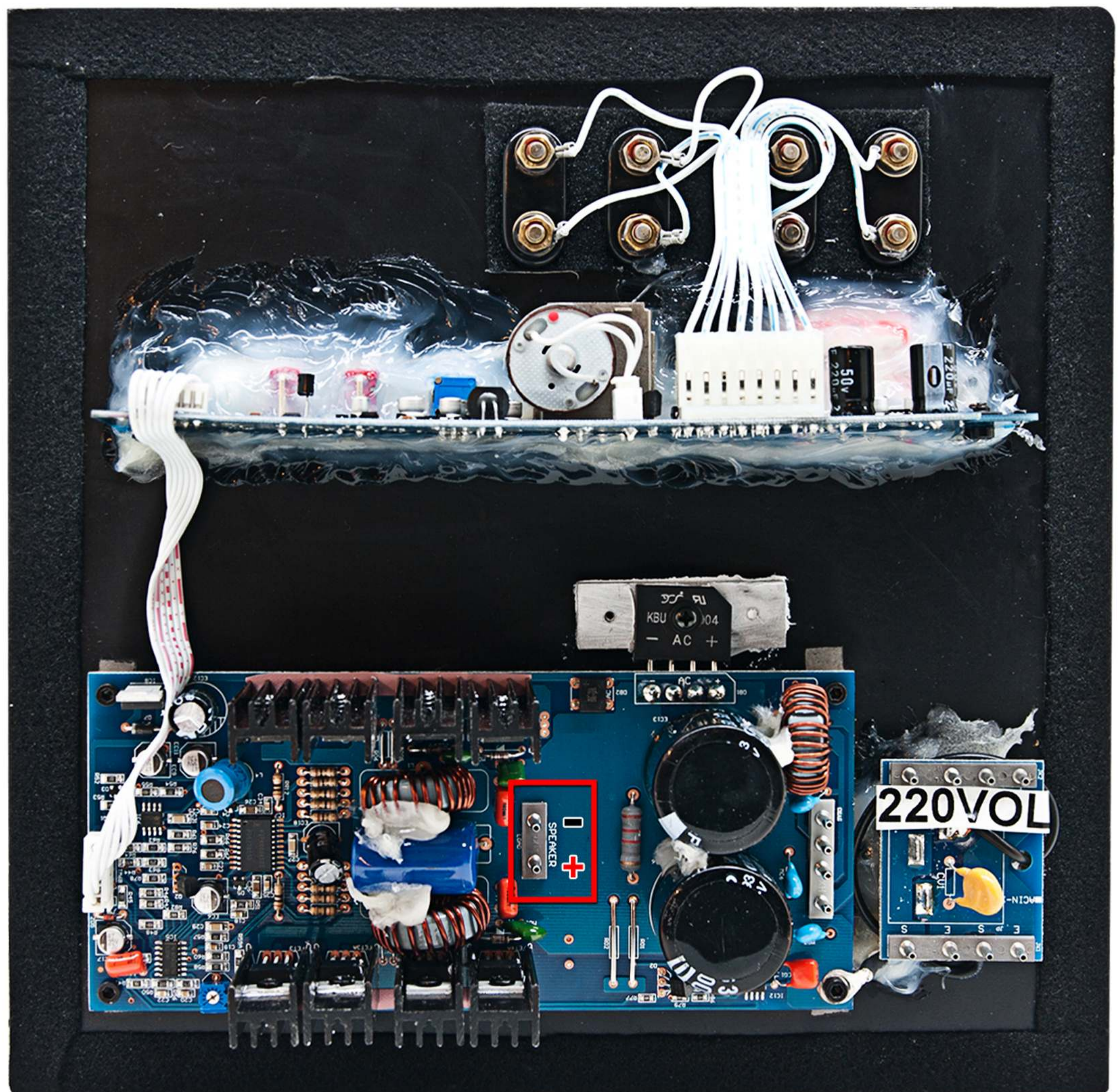


*Installing plug (B) to the powerboard*

# Installation

## How to connect the EQ-1000 Plateamp

- Connect the red wire to the positive (+) terminal on your subwoofer driver.
- Connect the black wire to the negative (-) terminal on your subwoofer driver.
- Install the EQ-1000 in the cutout hole of your subwoofer cabinet and make sure the screws have been tightened.



# Connecting your EQ-1000

## Low Level -RCA- Audio Input Connection:

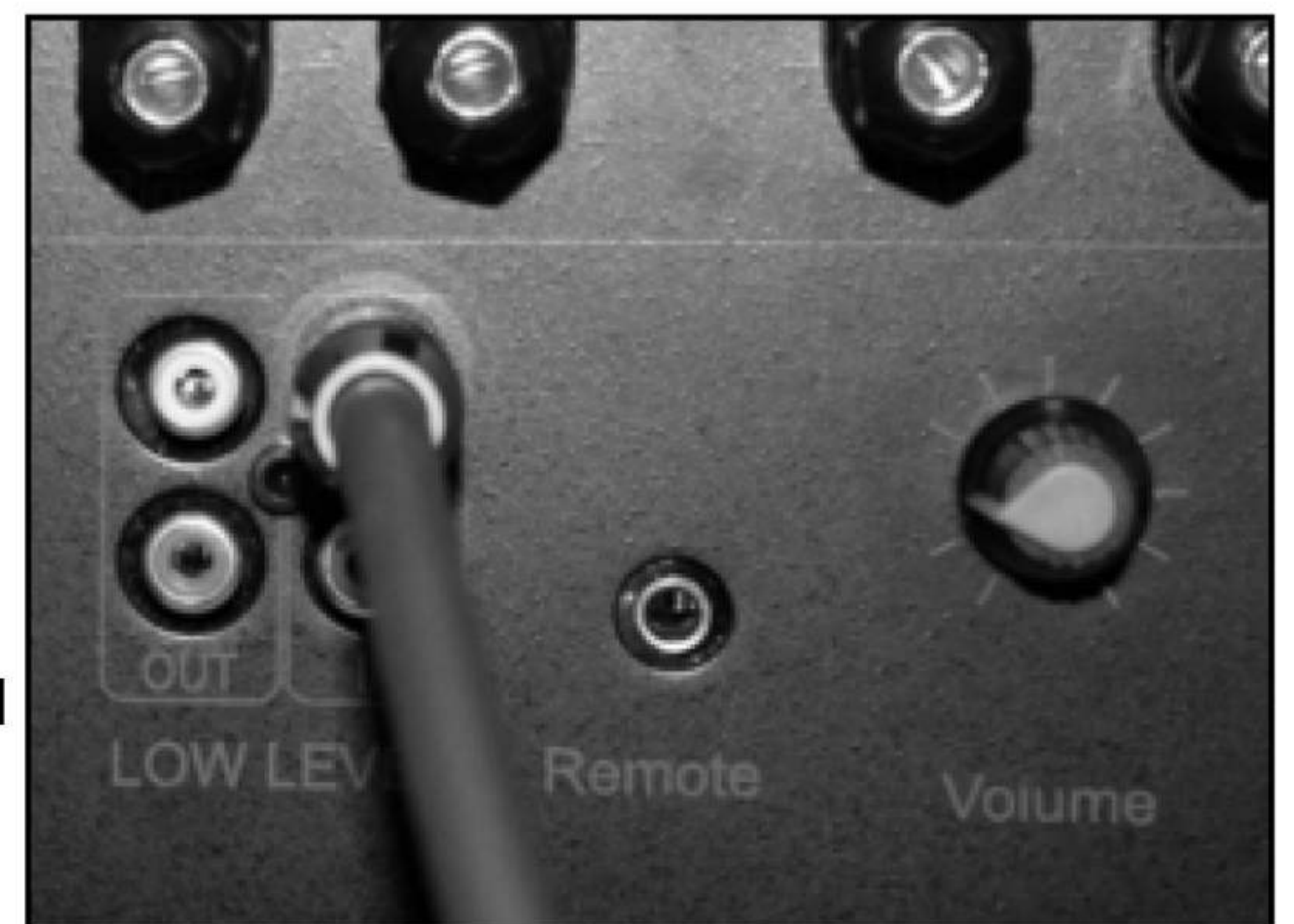
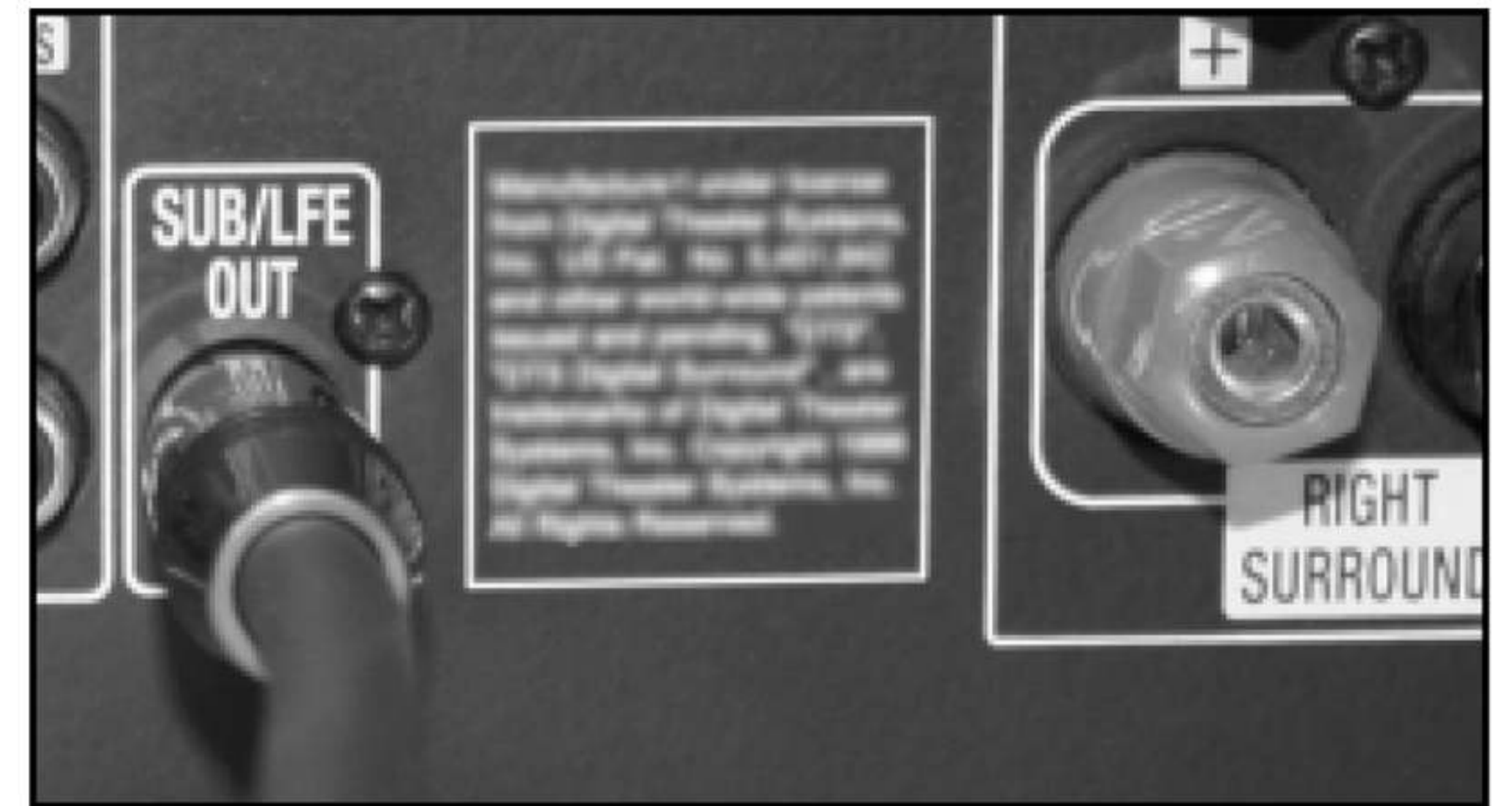
This is the best way to drive an audio signal into the EQ-1000 Plateamp. Today, all signal processors (5.1/6.1 and more advanced ones) come equipped with built-in pre-amplifier outputs (RCA) that include a subwoofer output.

Generally, the SUB/OUT is in mono format. Connect the SUB/OUT from the processor to the EQ-1000 Plateamp using a “Y”connector to feed both RCA inputs of the EQ-1000 Plateamp. However, you can connect the EQ-1000 Plateamp using just one RCA input as well.

We strongly recommend that you use the best available RCA connectors and cables. High quality cables are normally triple shielded and the connectors are gold plated with forceful grasping.

From  
Receiver/  
Pre Amp

To  
EQ-1000  
Low Level  
Input



Connection from processor to EQ-1000 using a high quality RCA cable

## High level audio input connection:

This is the least desired way to drive an audio signal into the EQ-1000 Plateamp subwoofer. Older stereo systems are not equipped with pre-amplifier audio outputs, normally they come with stereo speaker outputs (left & right).

Using “banana” plugs, connect the speaker outputs to the corresponding EQ-1000 high level inputs (marked “FROM RECEIVER”).

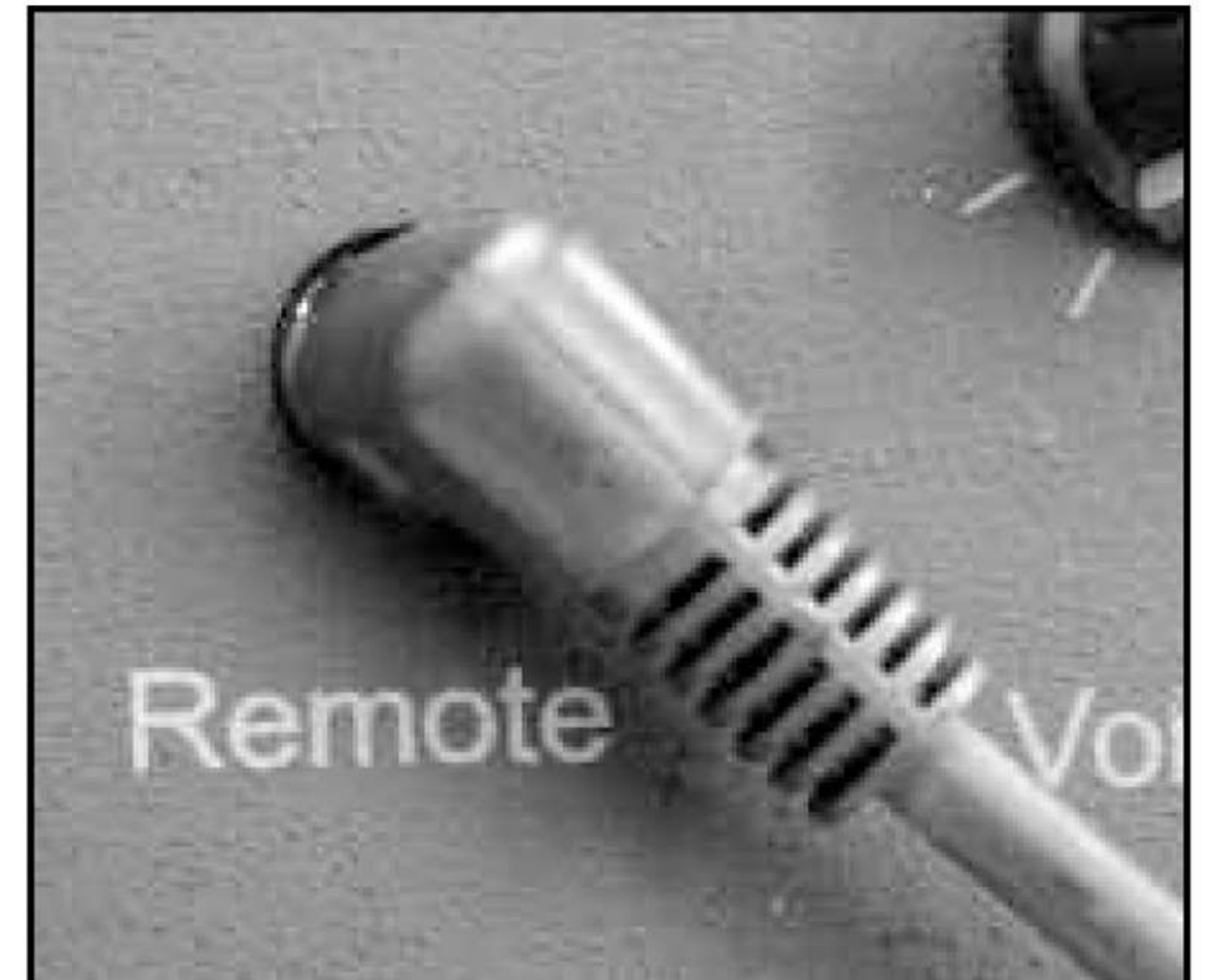


# Using the Remote Eye

## Wireless remote with eye:

Earthquake's advanced remote eye system and remote control are easy to use and setup. This three piece system is for controlling your system's bass volume. Allowing the bass to be adjusted by isolation is great for demonstrations and for stealth subwoofer installations.

Installing the remote eye is very easy: simply plug the provided 1/8" jack to the REMOTE connection on the EQ-1000 Plateamp. Once you have found a good location that suits your needs best, mount the eye and run the cable from the amp to the eye.



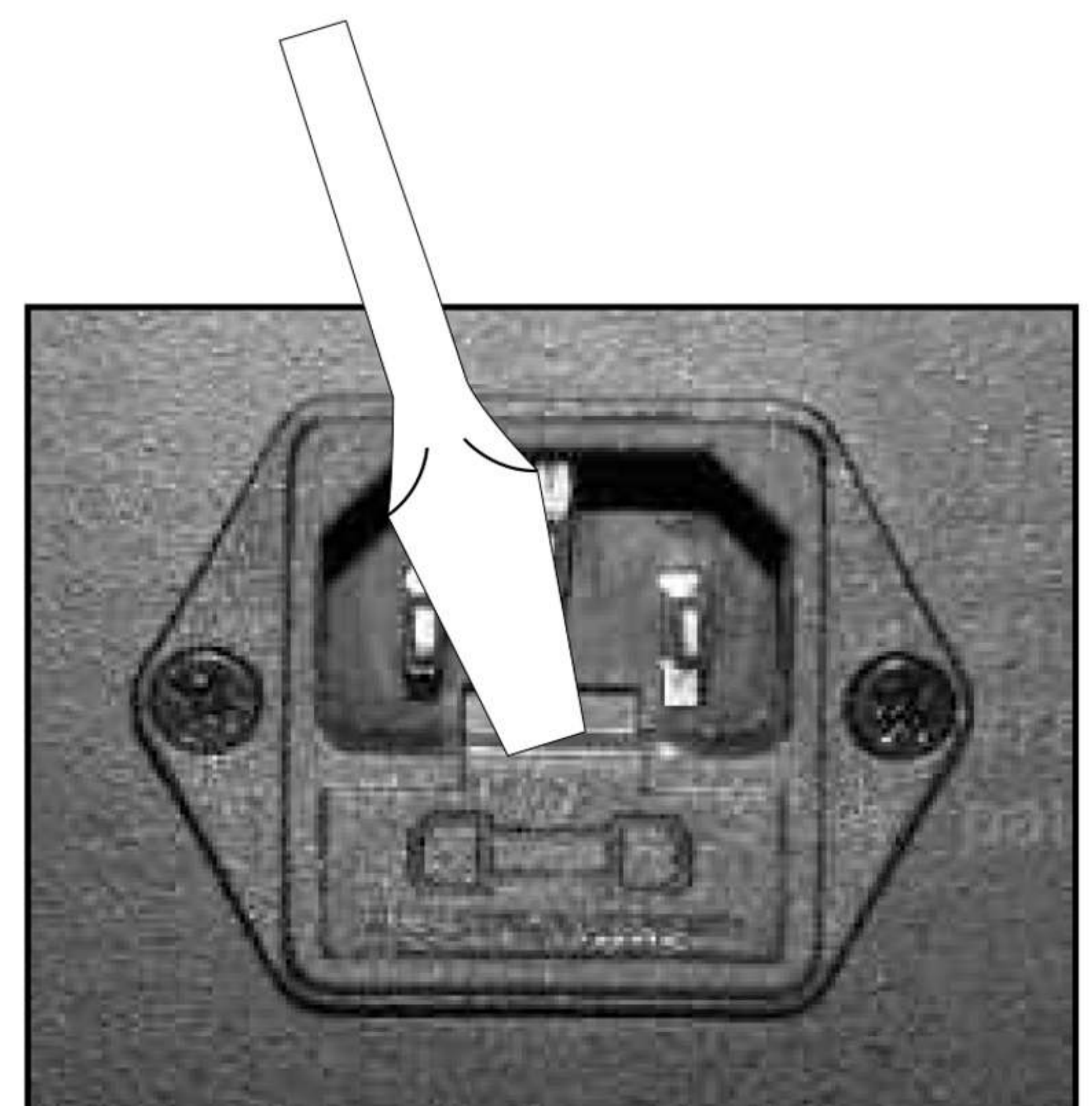
## AC power connection:

EQ-1000 Plateamp is available in 220V/240V. The power socket is fused to protect the amplifier from surges. Do not overfuse, replace the fuse with identical value.

## Fuse holder:

The fuse holder is located directly under the power socket. It contains two extra fuses, 10 amperes each.

To access the fuse holder, make sure your EQ-1000 is turned off and unplugged from both the wall outlet and the amplifier's power socket. Place a flat head screwdriver in the groove on the top of the fuse holder and simply pry off the fuse holder.

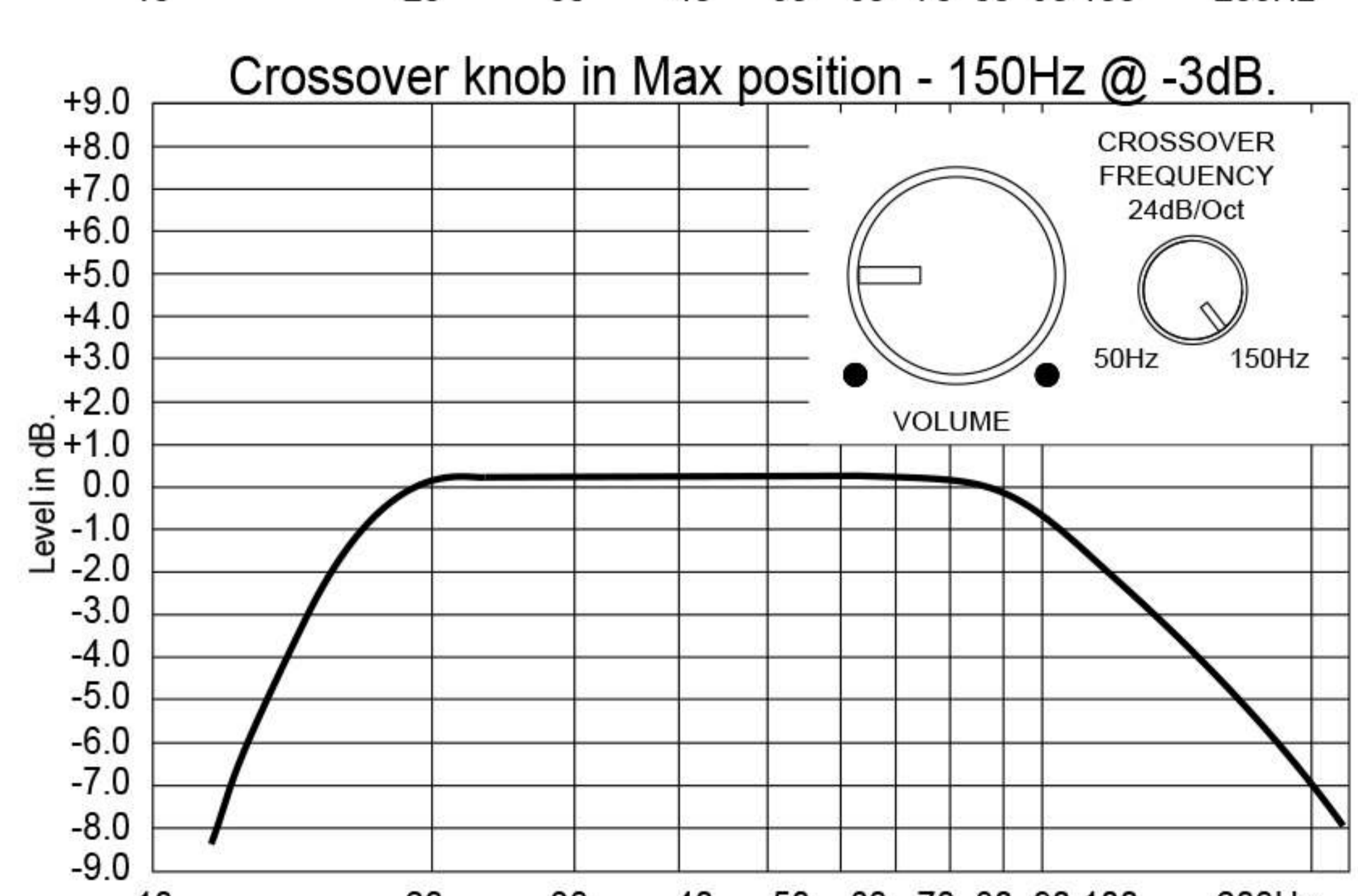
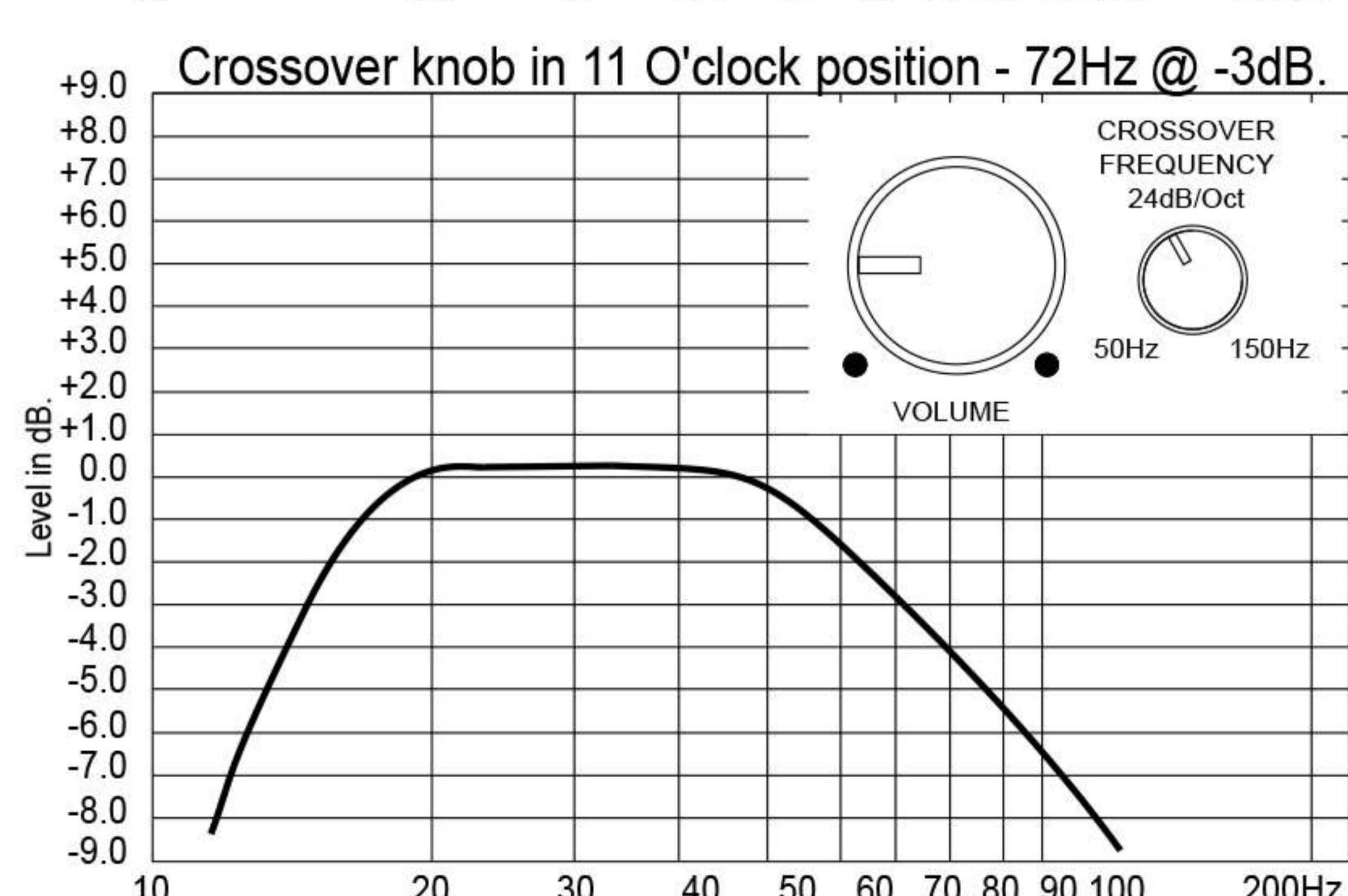
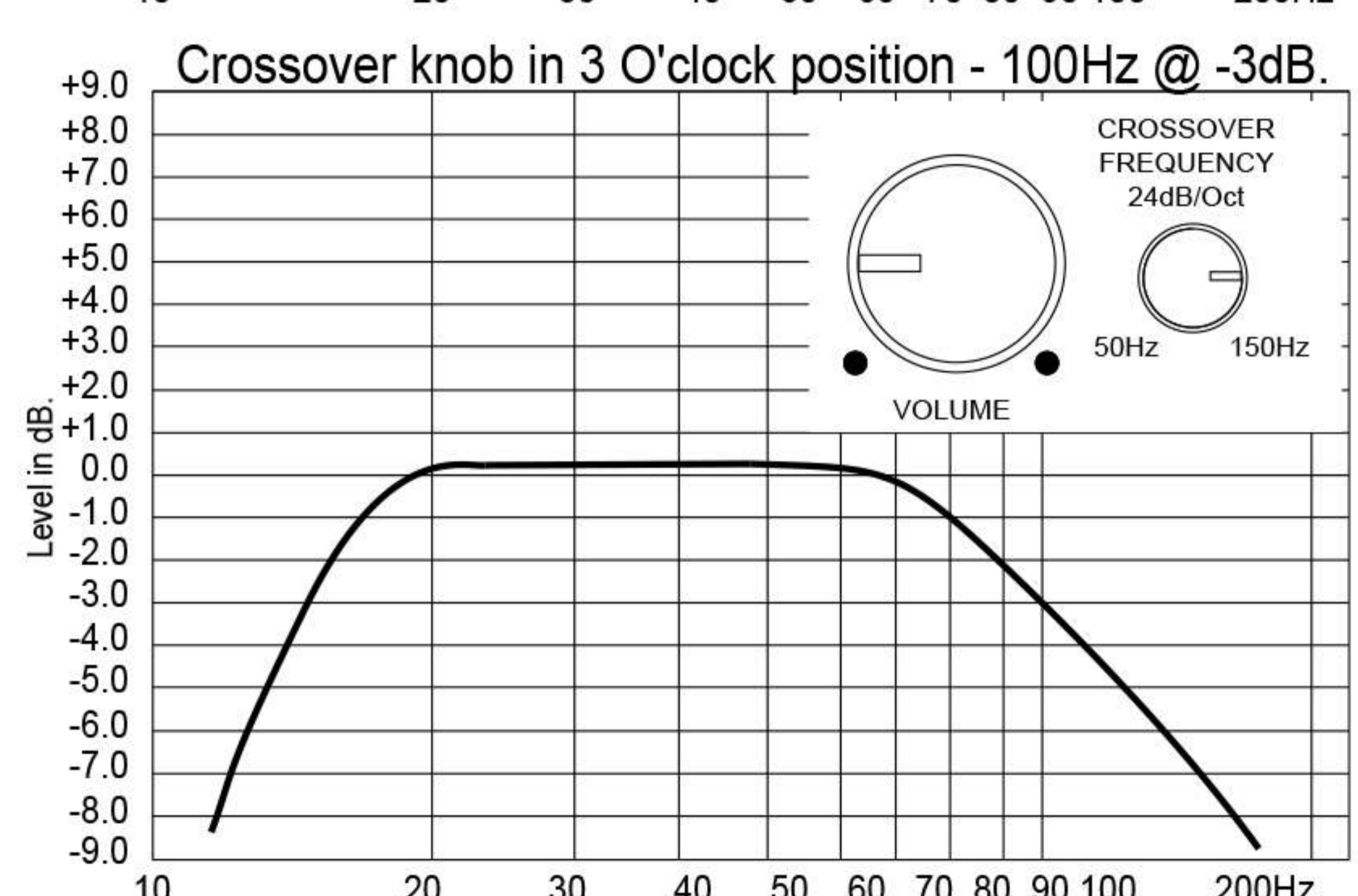
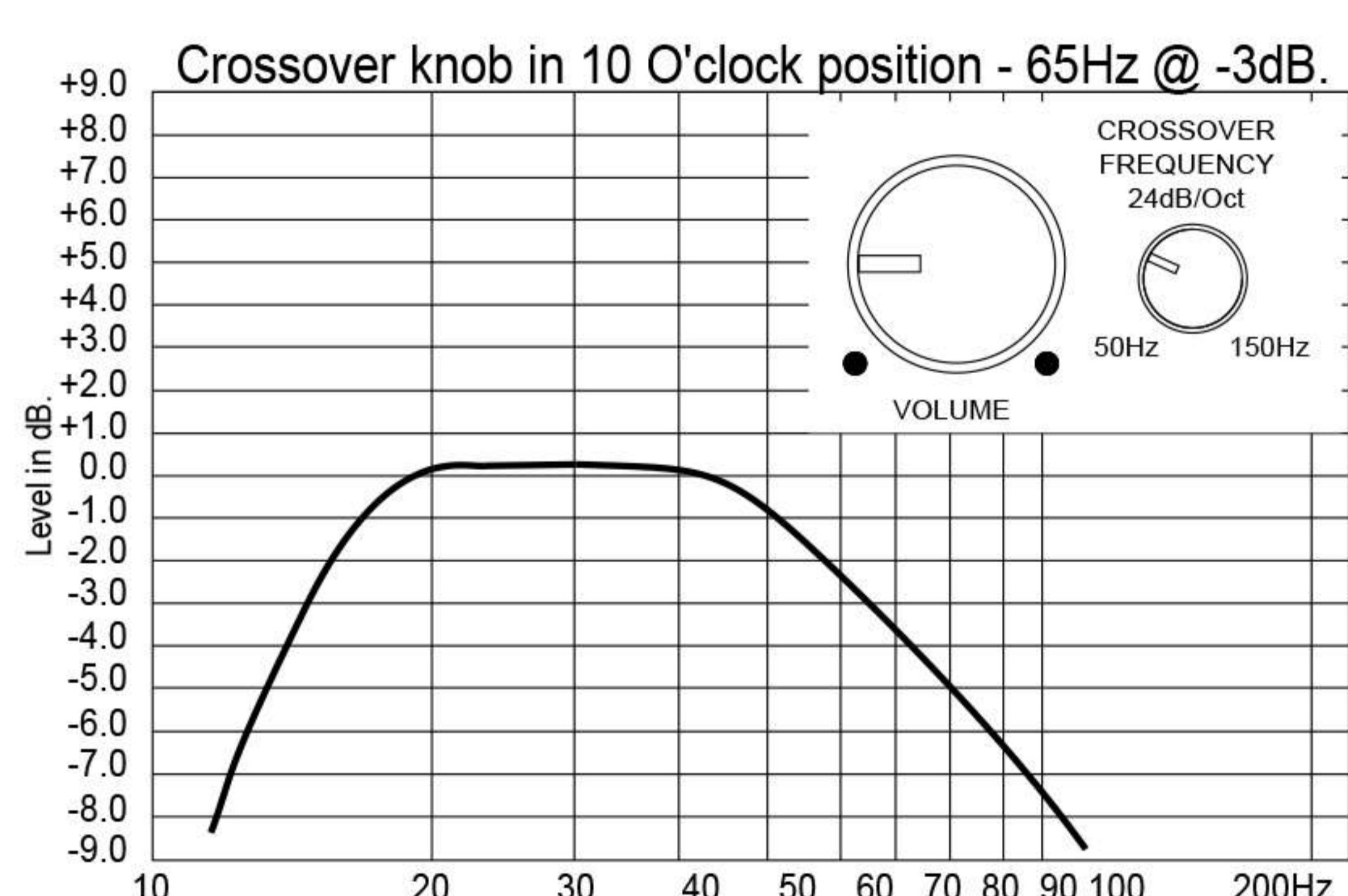
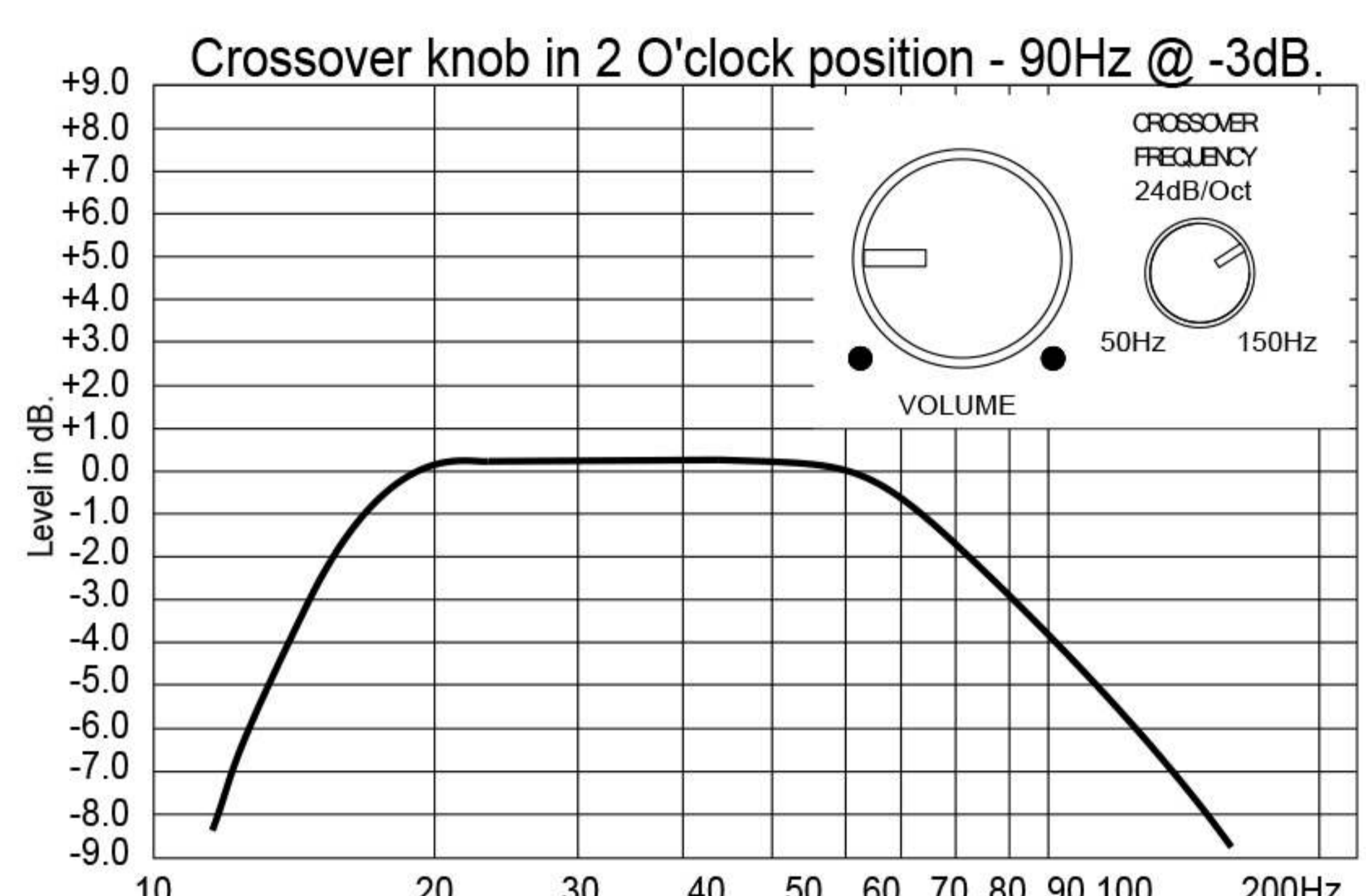
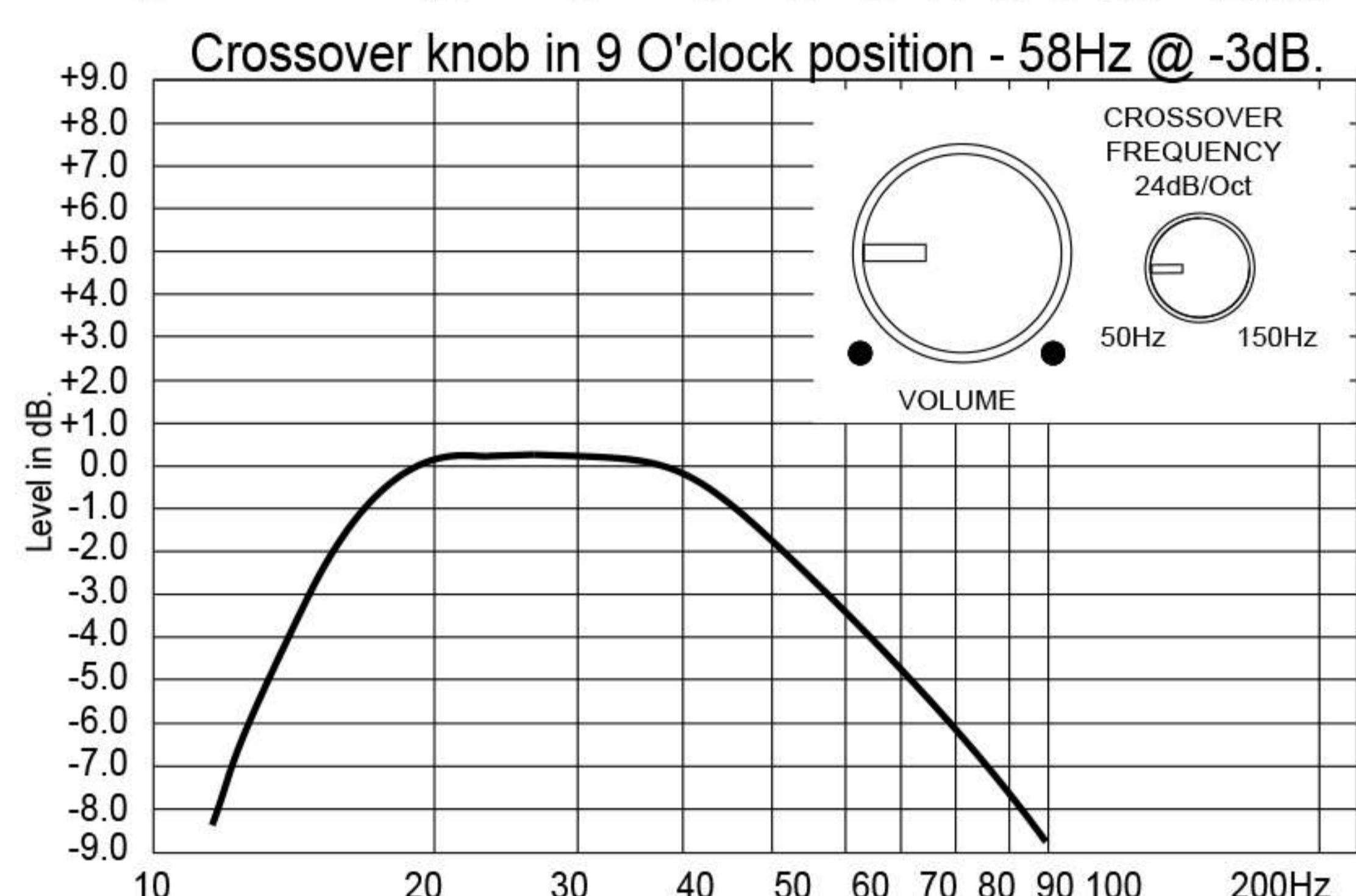
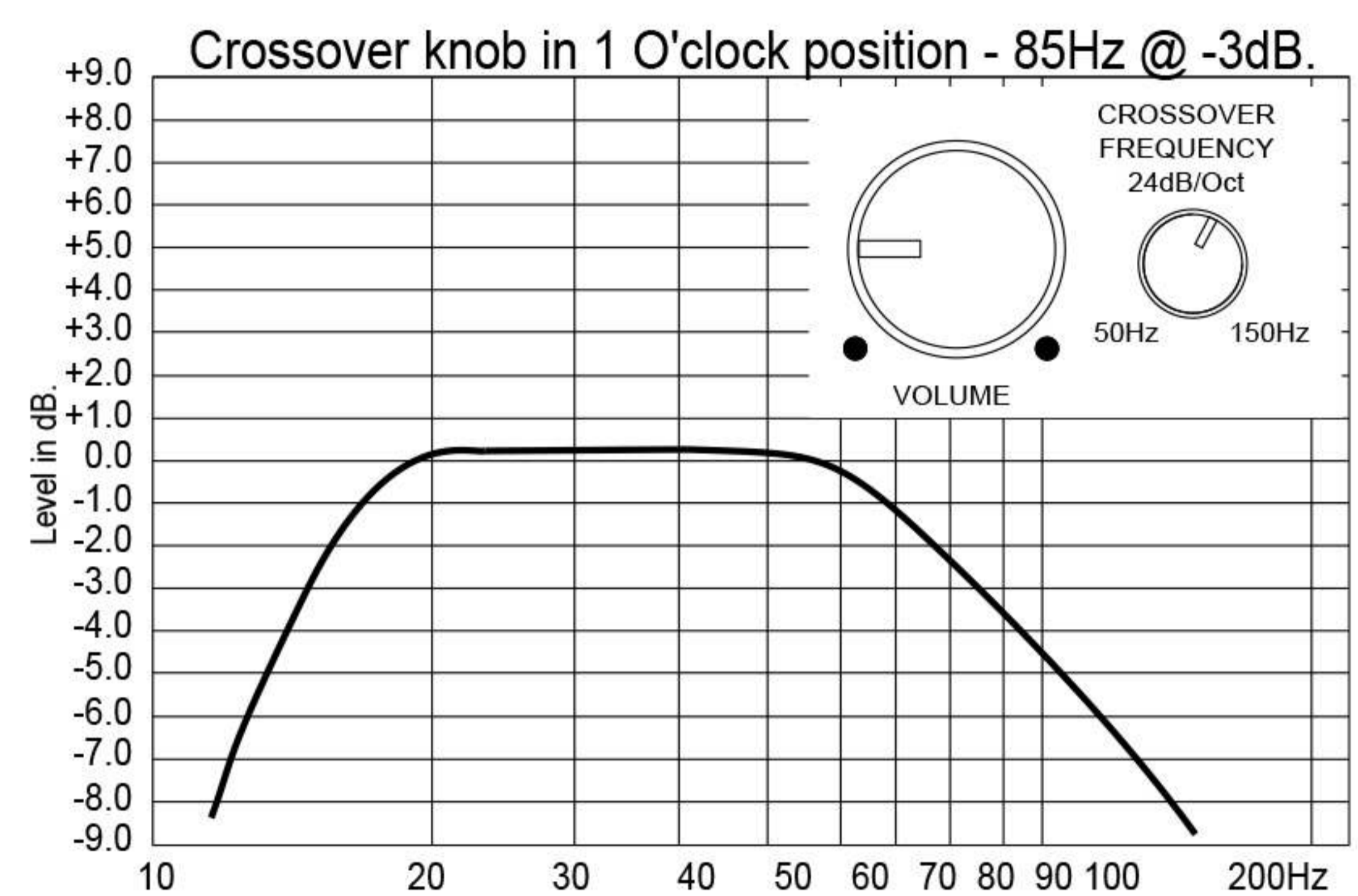
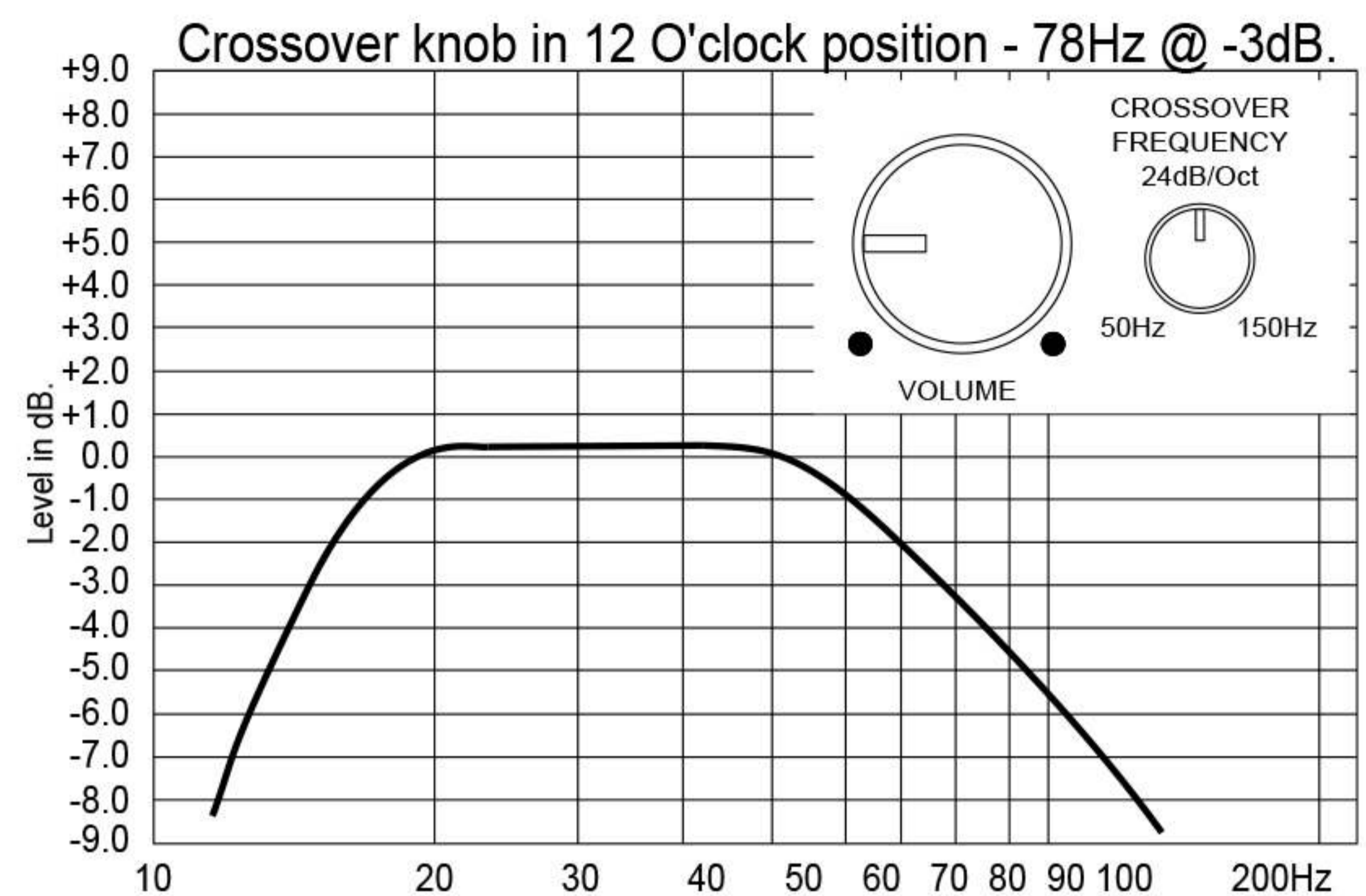
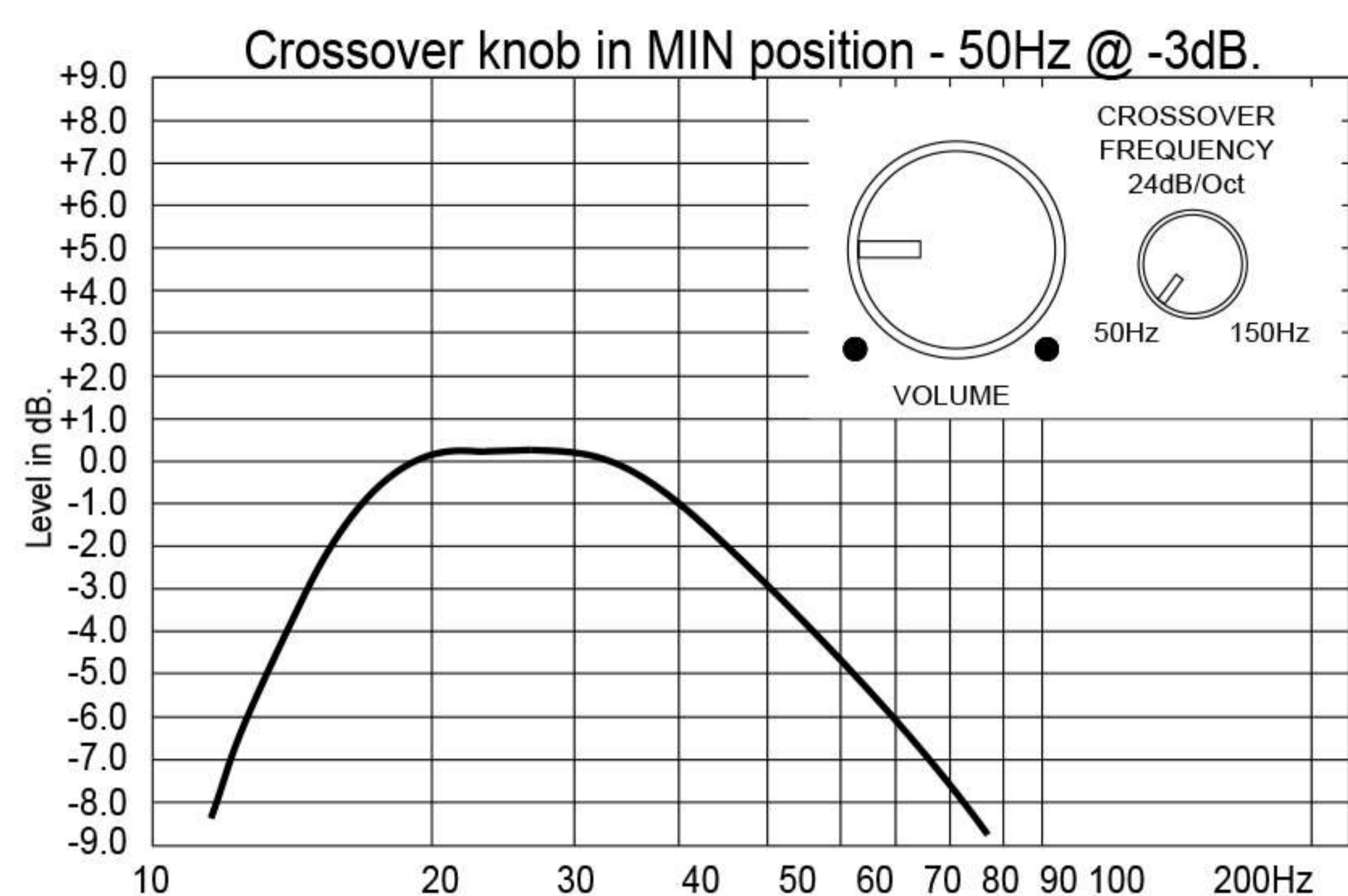




# Low Pass Filter Settings

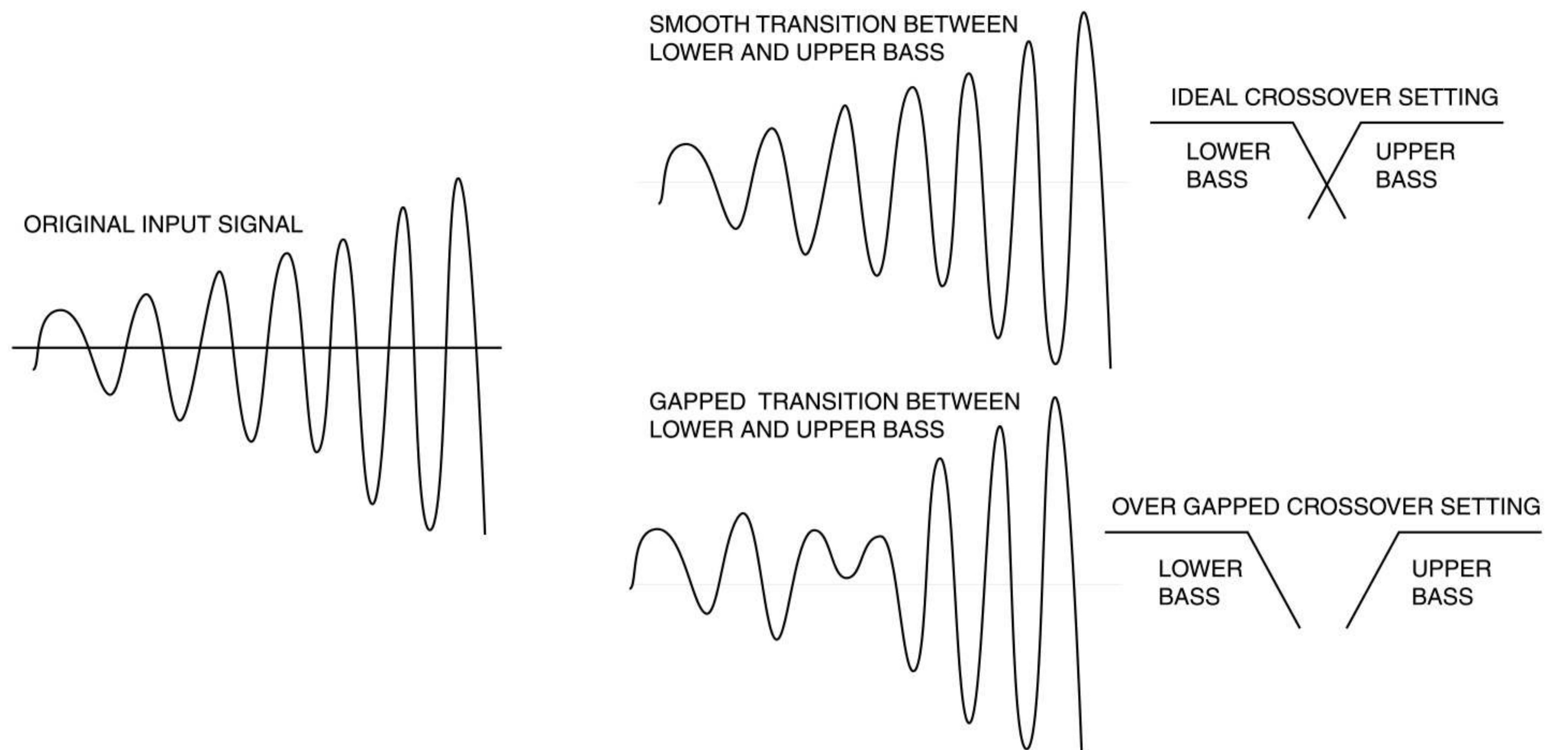
The EQ-1000 Plateamp's frequency response is limited by the built-in filter ( with an upper end of 150Hz); for most applications, the crossover should not be set above 80Hz. It is equipped with a fourth-order Linkwitz-Riley (24dB per octave) filter which will block vocals from interfering with its performance.

When fine tuning the EQ-1000 Plateamp, set the crossover to 150Hz as a starting point , you will hear vocals coming out of the sub; gradually reduce the crossover point until vocals are eliminated.

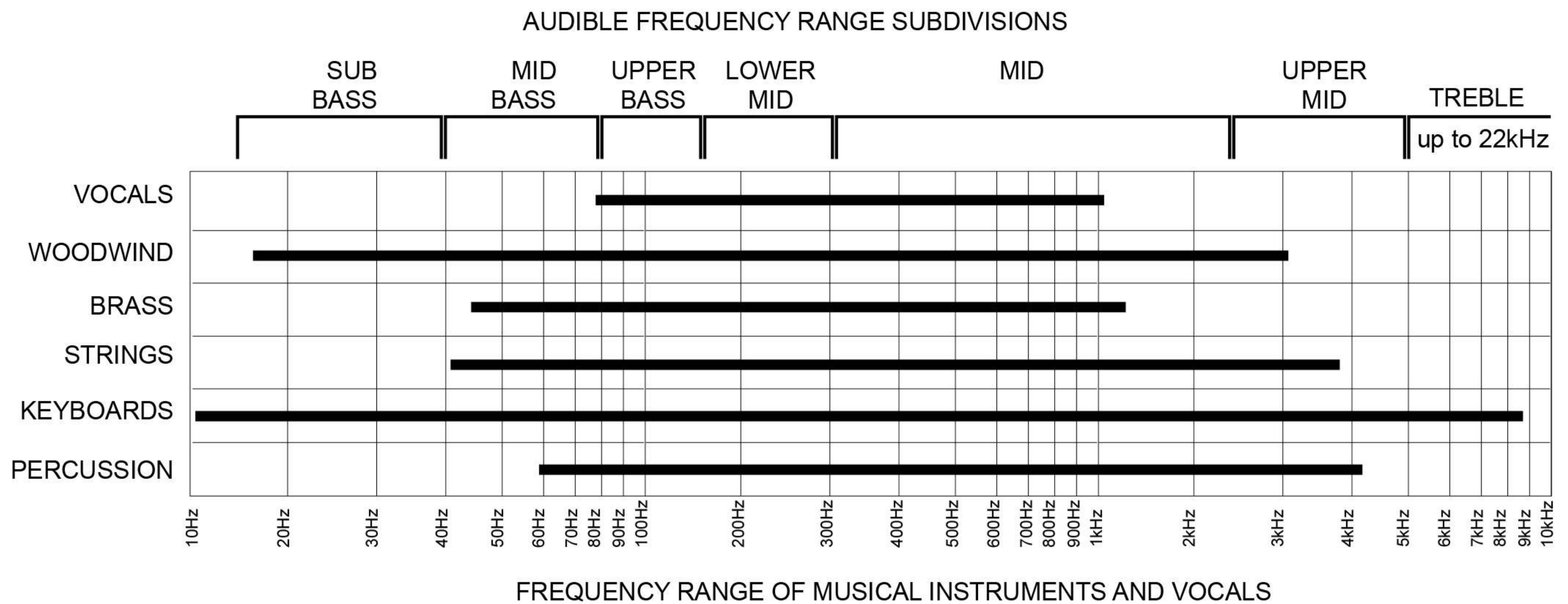


# Seamless Transitions Between Plateamp and Speakers

The fine tuning process includes creating a smooth transition of music between the subwoofer and the next speaker in line: usually a woofer or a large midrange. As shown in the graph across, a smooth transition between lower and upper bass is directly relative to the crossover setting and the capability of the next speaker in line to reproduce low frequencies.



# Audible Frequency Range of Musical Instruments & Vocals



# Specifications

## Features:

- Earthquake Evolved Class D Amplifier
- Standard room correction
- Airtight design for direct mounting in the subwoofer box
- 0-180 degree phase adjustment
- Volume control
- RCA input and output
- Speaker power in and outputs
- Power cable not included.

## Specifications:

- 1100 Watts MAX at 1.5 Ohms
- 1000 Watts MAX at 230 volts for 2 ohms
- 380 Watts MAX at 4 ohms
- 180 watts MAX into 8 ohms
- 50 - 160 Hz frequency adjustment (24dB filter)

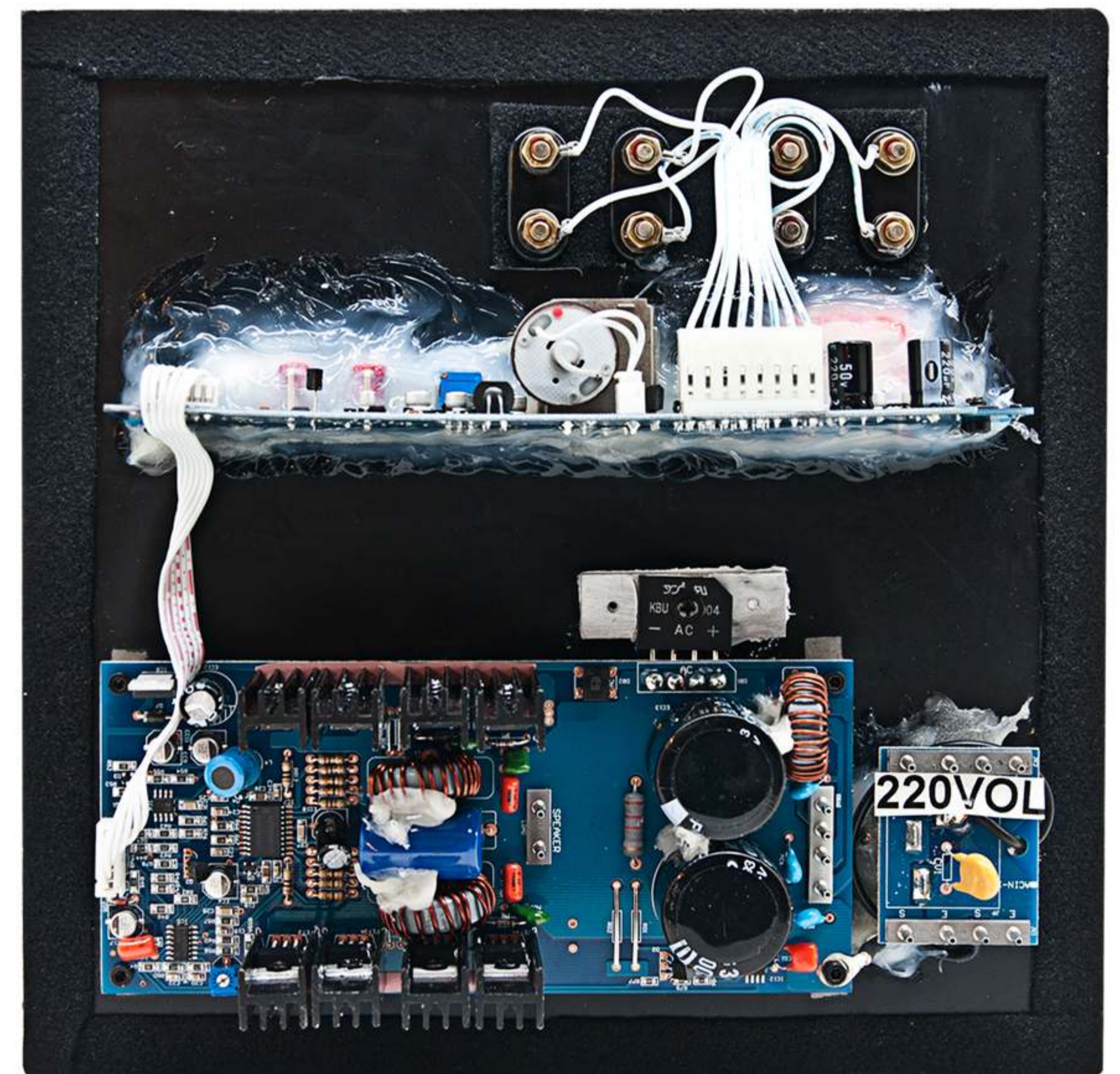
## Dimensions:

### Outer dimensions:

- Height: 267 mm
- Width: 267 mm
- Plate thickness: 3 mm
- Maximum insertion depth: 67 mm

### Hole Size:

- Height: 232 mm
- Width: 235 mm





**Sound That Will *Move* You.**

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