



## **D•500 MKII Class D Monoblock Amplifier**

Thank you for purchasing the D•500 MKII Power Amplifiers. These products are proudly designed, assembled, and tested in the USA. We hope they will provide you with many years of musical enjoyment.

Please read the entire contents of this manual before making connections to your audio system.

### **Design**

The D•500 represents the latest in Class D audio amplifier technology.

At the AC Input, we use our smooth-start circuit, which eases the start-up tasks, then to our XDC•2 circuit to eliminate any DC voltage riding on your AC line. Power is then fed to our custom multiple-output 922VA power transformer, then rectified by discrete Schottky diode bridges. Several individual voltages are then filtered and regulated to provide power to various circuits. The output circuit is unregulated with over 40,000uF of capacitance.

The amplification circuit is a custom full-bridge UcD design with power output of 500 watts into 8 ohms / 800 watts into 4 ohms. This design is 90% efficient at full power and produces little heat (wasted energy). The small amount of heat generated by the amplifier is dissipated by the machined aluminum chassis acting as a heat-sink.

This low operating temperature means the internal components aren't subject to the heat cycles of traditional amplifiers, yielding better reliability, more consistent performance, and longer life.

### **Specifications**

Power Output: 500 watts @ 8 ohms/800 watts @ 4 ohms

Bandwidth: 50kHz

Frequency Response: 10Hz - 20kHz, +0dB/-0.5dB

Damping Factor: >1000

Input Impedance: 100k ohms

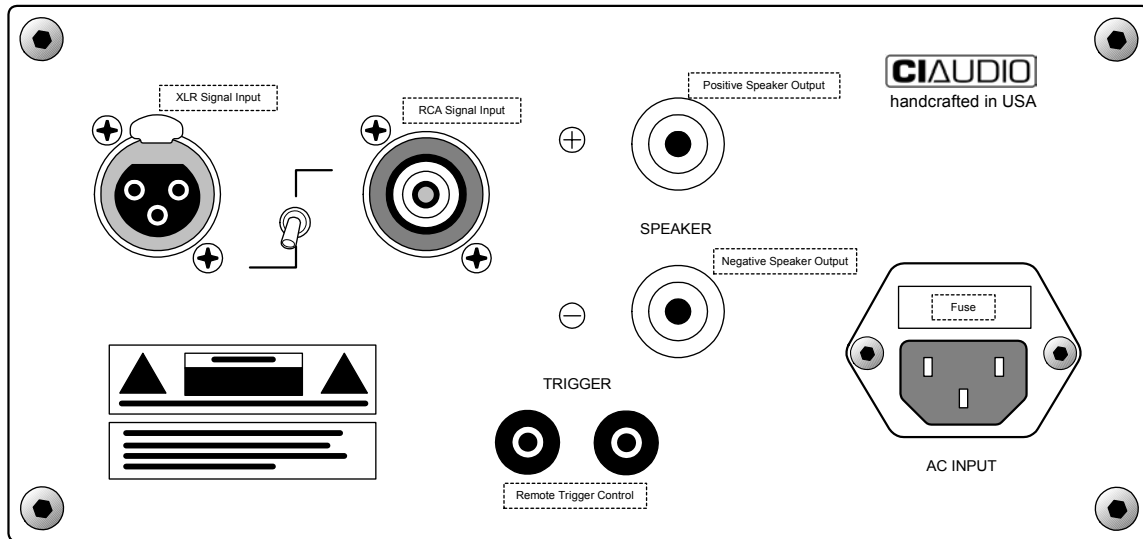
Gain: 38db (for use with VPC, PLC or other passive preamplifiers)

or 32db (for use with active preamplifiers)

Dimensions: 8.5" w x 4.0" h x 13.5" d

Weight: 28 lbs (each)

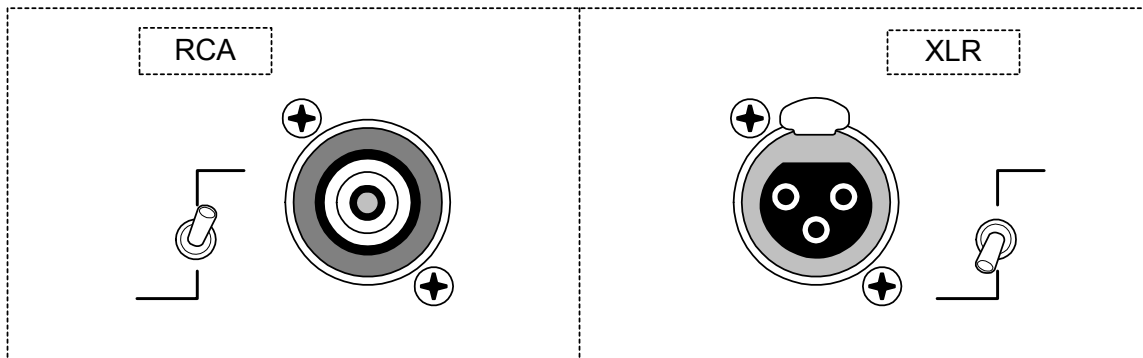
## Connecting your D•500's



### Signal Input

Connect your Left & Right signal to the respective input of each amplifier.

The toggle switch should be in the "up" position for use with RCA input, and "down" for use with the XLR input (*as shown below*).



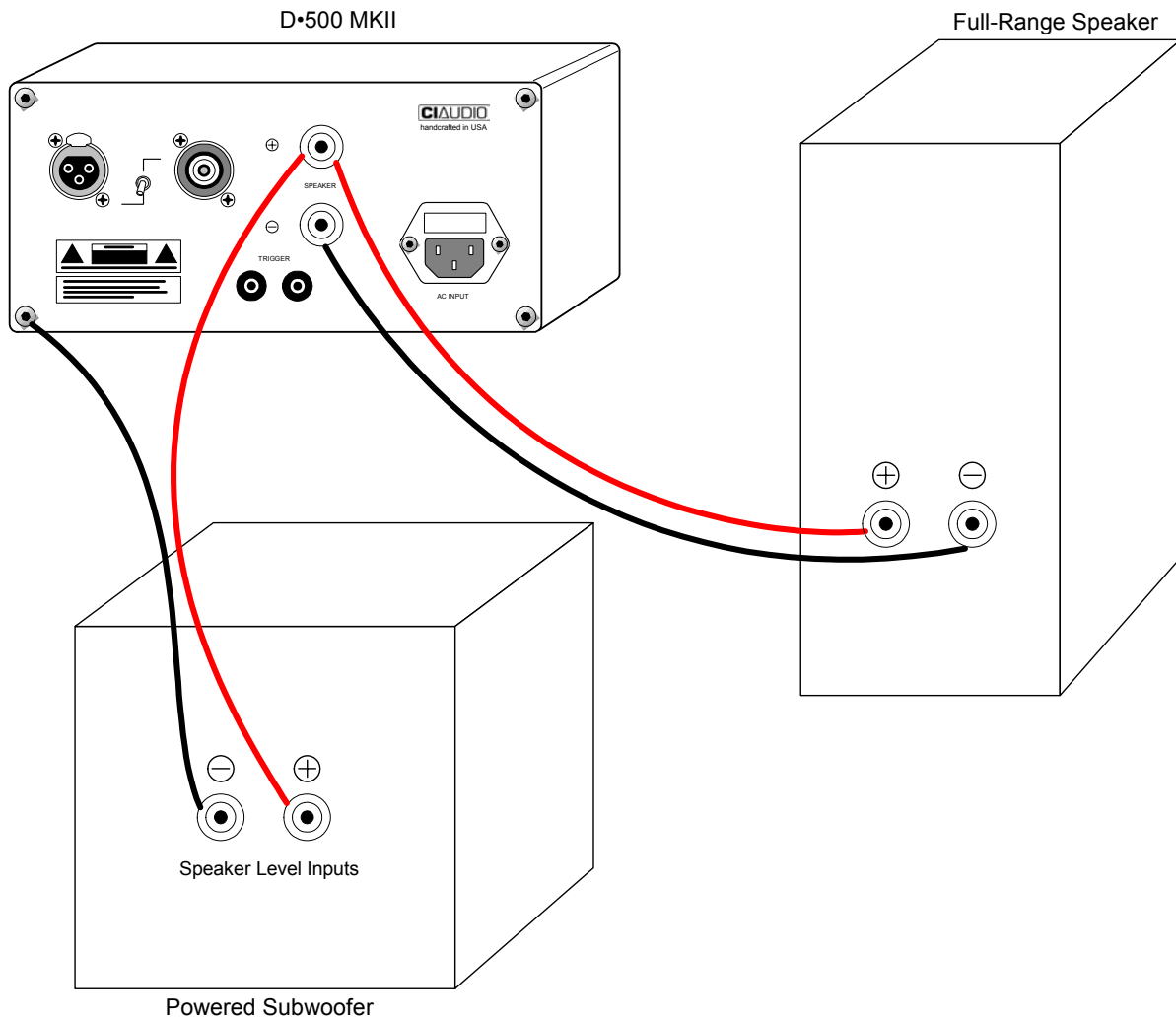
### Speaker Output

Next connect your speakers to the respective amplifiers. The "+" binding post is marked in red and should be connected to the "+" terminal of the loudspeaker. The "-" binding post is marked in black and should be connected to the "-" terminal of the loudspeaker.

## Sub-Woofer Connection

D•500 uses a bridged output circuit, meaning both terminals are "live". **Neither of these terminals should ever be connected to ground.**

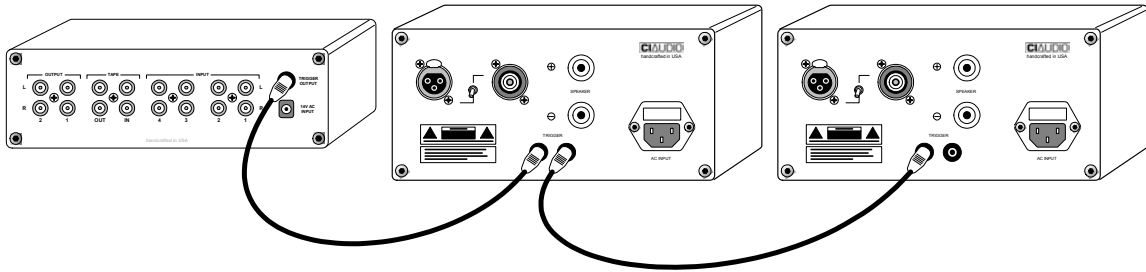
Many powered sub-woofer systems use the speaker cables from the main amplifier to send signal to the subwoofer amplifier. For this type of system, connect the "+" terminal of D•500 to the subwoofer's "+" input. Connect a wire from the chassis of D•500 to the "-" input of the subwoofer. *(as shown below)*



## 12v Trigger

The 12 volt DC trigger feature can be used to remotely mute/play your D•500's. Two ports are provided, allowing a daisy-chain of several amplifiers.

To make use of this feature, you will need our PLC•1 or similar device, which supports this feature.



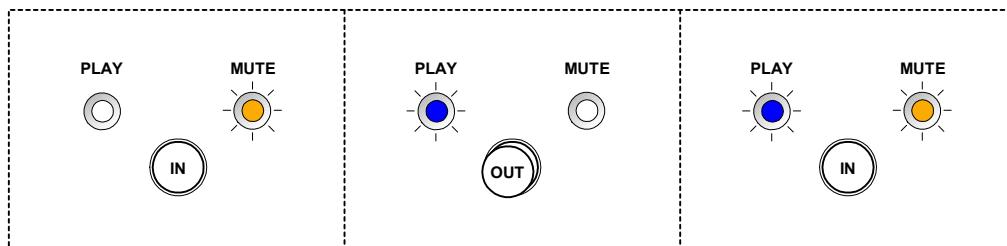
## AC Power

Before connecting AC power to your D•500's, put them in "mute" as shown in the first diagram below. When power is connected, you will hear a "click" as the SmoothStart circuit is engaged.

## Front Panel Switch/Indicators

The front panel switch is used to alternate between "play" and "mute". When the button is in the "in" position, play is muted and will illuminate an amber LED. When the button is in the "out" position, play will resume and will illuminate a blue LED.

If using the 12v trigger option, leave the amplifier in "mute" and the remote trigger function will control the mute/play state of the amplifiers. When turned on by the 12v trigger, both amber and blue LED's will illuminate.



## **Maintenance**

D•500 is essentially maintenance free other than occasional cleaning.

Always disconnect the amplifier from power prior to cleaning. The exterior can be cleaned with a soft cloth moistened with window cleaner. Never apply liquids directly to the aluminum surface.

## **Fuses**

Standard AC line fuses are used to protect the amplifier. Fuses are located in the AC input block above the power cord inlet. Each fuse holder houses a spare fuse in case of failure.

**Always disconnect from AC power before checking or changing fuses.**

### D•500 MKII Fuse Ratings

6.3A/250V Fast Acting GBD Series (5mm x 20mm)  
(Use for AC Input 100V~120V)

4.0A/250V Fast Acting GBD Series (5mm x 20mm)  
(Use for AC Input 220V~240V)

## **Warranty**

Your CIAUDIO product is covered by a 5 year Parts & Labor Warranty. For warranty service or technical support, contact us at...

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