

Wyred 4 Sound

mAMP



mini-AMP Owner's Manual

****IMPORTANT****

Check position of AC mains switch prior to connecting the unit to a power source.

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v1.1

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Register Your Product!

It is very important to complete the warranty registration form located on our website. You **MUST** complete and submit the form within 30 days of purchase to activate your warranty. When you navigate to our website there is a tab called “Register Products” that will allow you to fill out and submit the form.

****Keep your packaging! It is custom made for your unit and will effectively protect it for possible future use.****

Important

Please read the entire manual before connecting this product to any existing components. This manual contains detailed information regarding the design, operation and features of the Wyred 4 Sound mAMP. Damage due to misuse or failure to properly follow instructions will not be covered under warranty. See “Warranty” for an in depth understanding of warranty restrictions regarding this product.

****Caution****

The mAMP has an external AC mains switch that must be properly configured before connecting to AC power. Any damage as a result of failure to set the switch properly is not covered under warranty. Please refer to the “AC Mains Voltage switch” section in the manual for the fuse value and configuration instructions.

Unpack carefully

The mAMP packaging contains:

- 1 – Owners Manual
- 1 – 6’ AC Power Cable
- 1 –3.5mm mono trigger cable
- 1 – mAMP mono-block amplifier

Introduction

The transparent nature of a Wyred 4 Sound product reproduces your favorite recording with an abundance of detail and transparency. The circuits are carefully designed and built with premium grade components to produce optimum performance. Nothing is better than having neutral power behind your music!

We understand that there are other products on the market which have similar features and internal parts. To release a product ahead of its time, we experiment with numerous variations of each design to ensure the most elite is selected for final production. Each of our products goes through many variations fully optimize performance. We design and manufacture our products in the USA to ensure excellent quality, yet offer prices comparable to those produced in regions where manufacturing is much less costly. In addition to impressive performance you can expect superb build quality and excellent customer service.

Design and Feature Overview

The mAMP utilizes the latest generation of ICEpower® technology in addition to a completely redesigned input stage. The new amplifier design reproduces audio with negligible wasted energy. Despite the mAMP's small footprint, it is able to provide exceptional dynamic performance while offering jaw dropping micro-details. The power is delivered to your speakers through 14AWG OFC wiring connected to gold plated, insulated 5-way binding posts. While in standby, the amplifier power consumption is less than 0.5w and also keeps the idle power loss under 10 watts!

With a meticulous refined input stage that has been optimized for frequency response, distortion and performance; Balanced or unbalanced inputs can be utilized with exceptional results. A tremendous amount of time has been spent tuning the front end to produce our signature sound. The circuit includes a dual differential common mode converter which has been derived from our world famous DAC-2. Regardless of input type, the high quality differential input stage allows us to feed the amplifier with a pure balanced signal with ease. Another function of the front end is to isolate impedance mismatches which would otherwise become harmful to the audio. The 100k input impedance will pair well with everything from W4S gear to tube components without loading down the output stage of your source. Furthermore, our 3rd generation technology will significantly reduce the detrimental effects of a noisy source through balanced circuitry, audio grade capacitors, and the quad-paralleled front end.

The mono-block design also gives you many placement options for improved performance and convenience. It is very important for the amplifier to have

sufficient control of your speaker to ensure tight bass as well as a powerful yet nimble sound stage. The mono-block form factor allows you to use a short speaker cable for each channel by placing the amp in near proximity to each speaker. A mono-block configuration can cut cost on speaker cable while improving the performance of your system. Another benefit of separate amps is the elimination of channel crosstalk which further improves the imaging and presence of a well designed product.

Finally, the part that makes all of this possible is what many have been waiting for! The new chassis is even more attractive than ever and still keeps the functionality that we have come to love. A front view of the unit reveals only two screws tucked neatly in the rear of the top cover. The front panel is meticulously machined from a solid piece of $\frac{3}{4}$ " aluminum, line grained, and anodized in black. A radius on either side of the front panel rounds the corners off elegantly where the side extrusions extend to the rear of the unit and bare the same high quality anodized finish. The top cover is available in clear anodize (Silver) or black and has stylish venting allowing heat to escape. Having a structure with so much forward thinking creates a product that is very rigid and immune to frequencies and vibrations which can be generated by the various components in a HiFi system.

AC Mains Voltage switch

Located on the left side of the rear panel is an AC mains switch. When changing the 2 position slider switch the mAMP will need to be unplugged and powered down for at least 2 minutes. **It is very important to ensure that the slide switch is in the proper position before applying power. Failure to do so will likely result in damaging the internal components and will not be covered under warranty.**

The fuse is located above the IEC plug on the rear of the unit. It can be inspected by sliding the fuse holder out (It has a symbol of a fuse on it).

Fuse size 5x20mm Slow Blow / T5A 250VAC

Getting connected

CAUTION: Disconnect the power cord or put the power switch in the “off” position before making any connections to your amplifier to minimize the risk of electric shock and possible loudspeaker damage. Power your mAMP “on” after all final connections have been made.

Each binding post is made of highly ductile “OFC” copper alloy. Both clamping nuts are built out of one piece, and offer an excellent grip. All metallic surfaces offer a 24-karat gold-plating, and are made from non magnetic materials. The binding post will accept 4mm banana plugs, spades of 6 and 8mm, and crimped cable ends up to 10 AWG. The easiest connection is made with banana plugs, but be sure that you use the highest quality that you can find. Some inexpensive banana plugs can cause a highly resistive connection which can result in a noticeably higher distortion output to the connected speakers.

Powering your amplifier

In order to turn the mAMP on, the switch located on the rear must be in the “on” position. A green light surrounding the power button on the front will illuminate. There is a built in 2 second delay after initially turning the switch on in the rear of the unit before you can press the power button. Pressing the power button will turn the unit on and the light around the power button will switch to blue. It is recommended to turn the amp off with the switch on the back when you are connecting or disconnecting wires from the binding posts. We also recommend turning the main power switch off when experiencing electrical storms in the area, or perhaps leaving town for a long duration. To prevent power surges, we suggest using high quality surge suppressor equipment. Turning the switch “off” on the rear of the unit will protect it for when you have doubts on power stability.

“Break-in” period

This amplifier will deliver outstanding performance right out of the box. However, there will be improvements as the mAMP reaches the normal operating temperature and once all of the components have a chance to “settle in”. Our experience has shown that the mAMP will improve during its’ initial 300 hours of music playback. After the first 100 hours of music playback, the unit will start to shed any initial “brightness” and slightly harsh transitions. During the second 100 hours, the mAMP will start to become more fluid, and smoother overall. The remaining 100 hours will not result in much further improvements.

RCA/XLR Input select

The mini-Amplifier has both an RCA and XLR analog input. A balanced connection is recommended if your source components offer an XLR connection. A 2-position switch is located on the rear of the unit that selects either the RCA or XLR input. When the switch is in the “In Position” it will select the RCA input. If the switch is in the “out position” it will select the XLR input.

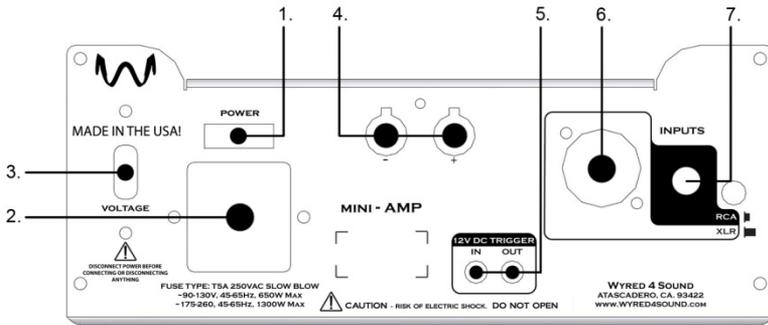
Please refrain from using RCA interconnects that are either the locking type or have an extremely tight fit on the jack. You may damage the RCA connector on the mAMP.

Special note: RCA/XLR is selected by a 2 position switch. We will define the “In position” as when the switch is pressed in and the button is nearly flush with the back of the unit. The “Out Position” will be defined as when the switch is in the extended position and not flush with the back of the unit

DC Trigger

Near the middle of the rear panel is a 12V DC trigger in and out. The trigger In will turn the unit on from standby once it is actively fed 12V DC. This feature is very convenient because it will allow the mAMP to automatically power on and off whenever the source is turned on or off. For example products such as our mPRE, mINT, DAC-2, STP-SE, STI, etc. all have 12V DC trigger outputs. You will also find various pre-pros and AV receivers that have a compatible trigger feature. The trigger out will be active whenever amp is powered on and allows it to trigger on other components such as another mAMP. There will be a slight delay in the trigger out to help smooth any possible power-up surges.

Back Panel Diagram



1. On/Off power switch
2. Fuse holder and AC power input
3. 120V/230V Mains Voltage selector switch
4. Speaker output
5. 12V DC Trigger: Used for turning the unit on from a standby state as well as triggering on equipment with a compatible trigger input.
6. XLR Analog input
7. RCA Analog input

Troubleshooting -No sound?

If you have your input source and speakers connected and you can't get music to play, check the following. (Feel free to test for output at any time during this process if you find and correct a potential problem)

Always check the position of the volume knob before starting to play music. Damage to the amplifier or connected components due to an unintended musical blast will not be covered under warranty.

1. Verify that the power cord is securely plugged into the wall and the mAMP.
2. Make sure that the Voltage Selector Switch is in the proper position. Also be sure to check the fuse which is located in the IEC inlet.
3. Check the power switch on the rear to verify that it is in the on position. Make sure that the blue light is on around the power button. If the light around the power button is green, the power button will need to be pressed once to turn the amp on.
4. Make sure that the input switch is in the proper position for the input type you are using. (ex. RCA/XLR)

5. If the input selection switch is in the proper position, you will need to check your source for sound output. Carefully check to see that you have the correct input selected and the cables plugged in securely.
6. If the input is in the proper position and you are confident that your source is sending a signal but have no sound, try inspecting or replacing the interconnects and speaker cables.
7. Verify that the interconnects are working by replacing them with a different set from a connection that you know works. If these cables were used in the current setup and the only component that has changed is the mAMP continue to the next step.
8. Now that you have interconnects that you know work, try connecting the amplifier to another source and speakers that you know have worked in the past.

If you are still experiencing problems and have exhausted your available resources and time please contact the dealer/distributor that you purchased the product from for additional support.

Got hum?

Is there too much hum coming out of your speakers? To clarify, if you put your ear right next to the tweeter of your speaker, it is normal to hear some level hiss. If the noise is easily heard at a distance, try putting your source on mute. If this eliminates the noise, it's inherent in the source. If muting your source doesn't disconnect the outputs when muted, and the noise still exists while muted, try disconnecting the inputs to the amplifier. If the noise is still there when the inputs are disconnected, then your amplifier may need service. If the noise is not there when the inputs are disconnected, try putting a cheater plug (ground isolator) on one component at a time in order to locate the source of the ground loop. Once the source is located you can contact the manufacturer for further information regarding a solution. NOTE: We only recommend using a ground isolator for trouble shooting purposes, and it should be removed after the problem has been found and resolved. Having the ground of any unit disconnected can potentially create a dangerous situation.

An easy way to locate a noisy component is to replicate the problem then start disconnecting components one at a time, starting with the source end of your system. **Digital cable boxes and satellite receivers are notorious for making ground loop hum.** This is normally caused by the potential difference on the input wire (shield side) for either of the boxes when referenced to ground. If this is the case in your system, the installation of an isolating transformer would be the easiest solution and are normally readily available at your local electronics parts store. A

better solution is a power strip with grounded and surge protected F-connectors that you can pass your cable or satellite signal through.

Warranty coverage

Wyred 4 Sound's warranty obligations are limited to the terms set forth below:

Wyred 4 Sound, as defined below, warrants this Wyred 4 Sound-branded hardware product against defects in materials and workmanship under normal use for a period of FIVE (5) YEARS from the date of retail purchase by the original end user purchaser ("Warranty Period"). If the product has been transferred from the original owner to a second hand owner it has a ONE (1) YEAR warranty, valid from the original date of purchase by the original owner. If a hardware defect arises and a valid claim is received within the Warranty Period, at its option, Wyred 4 Sound will either (1) repair the hardware defect at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product. Wyred 4 Sound may option that you replace defective parts with new or refurbished user-installable parts that Wyred 4 Sound provides in fulfillment of its warranty obligation. A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by Wyred 4 Sound, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Wyred 4 Sound's property. Parts provided by Wyred 4 Sound in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to Wyred 4 Sound and becomes Wyred 4 Sound's property.

EXCLUSIONS AND LIMITATIONS

Wyred 4 Sound does not warrant that the operation of the product will be uninterrupted or error-free. Wyred 4 Sound is not responsible for damage arising from failure to follow instructions relating to the product's use. This warranty does not apply: (a) to damage caused by use with non-Wyred 4 Sound products; (b) to damage caused by accident, abuse, misuse, flood, fire, earthquake or other external causes; (c) to damage caused by operating the product outside the permitted or intended uses described by Wyred 4 Sound; (d) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of Wyred 4 Sound or a Wyred 4 Sound Authorized Service Provider; (e) to a product or part that has been modified to significantly alter functionality or capability without the written permission of Wyred 4 Sound; (f) if any Wyred 4 Sound serial number has been removed or defaced.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, WYRED 4 SOUND SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, AND WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF WYRED 4 SOUND CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY AND TO REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY WYRED 4 SOUND IN ITS SOLE DISCRETION EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW, WYRED 4 SOUND IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL; LOSS OF REPUTATION; LOSS OF, DAMAGE TO OR CORRUPTION OF DATA; OR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE HOWSOEVER CAUSED INCLUDING THE REPLACEMENT OF EQUIPMENT AND PROPERTY, ANY COSTS OF RECOVERING, PROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED OR USED WITH WYRED 4 SOUND PRODUCTS AND ANY FAILURE TO MAINTAIN THE CONFIDENTIALITY OF DATA STORED ON THE PRODUCT. THE FOREGOING LIMITATION SHALL NOT APPLY TO DEATH OR PERSONAL INJURY CLAIMS. WYRED 4 SOUND DISCLAIMS ANY REPRESENTATION THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY.

Obtaining warranty service

Please access and review the resources referred to in the documentation accompanying this hardware product before requesting warranty service. If the product is still not functioning properly after making use of these resources, please contact the Wyred 4 Sound representatives or, if applicable, an Authorized Service Provider/dealer using the information provided on the Wyred 4 Sound website. A Wyred 4 Sound representative or an Authorized Service Provider will help determine whether your product requires service, and if it does will inform you how Wyred 4 Sound will provide it. Wyred 4 Sound or its Authorized Service Providers will provide warranty service on products that are tendered or presented for service during the Warranty Period, as permitted by law. **Wyred 4 Sound is not responsible for freight charges to our facility for warranty repairs. We will cover return freight charges (domestic only) if the unit is found to be faulty and still within the warranty coverage period. You will be responsible for delivery and return shipping and handling charges if the product cannot be serviced in the country it is in.** In accordance with applicable law, Wyred 4 Sound may require that you furnish proof of purchase details and/or comply with registration requirements before receiving warranty service. Please refer to the Service page on the Wyred 4 Sound website. For more details on this and other matters on obtaining warranty service contact your dealer. Recovery and reinstallation of system and application software and user data are not covered under this Limited Warranty.

Service

In the unlikely event there is a problem with your Wyred 4 Sound component, please contact your dealer, distributor, or Wyred 4 Sound to discuss the problem before you return the component to our manufacturing facility for repair. Products shipped to the factory will be refused and returned freight collect if not accompanied by a Wyred 4 Sound Service Department issued return authorization number (RA Number). Return authorization numbers must be prominently displayed on the outside of the box and an accompanying letter describing the problem and re-listing the RA number must be inside the box to qualify for service.

To contact the Wyred 4 Sound Service Department:

Telephone: 805-466-9973

(See "Contact Us" on our website for current hours of operation)

Fax: 805-462-8962

Email: support@wyred4sound.com

Website: <http://www.wyred4sound.com>

If you are located in the United States and purchased directly from W4S use the following procedure:

1. Fill out the Service form at the following address and be sure to document all details: <http://www.wyred4sound.com/Service.html>
2. If service is approved we will issue a Return Authorization Number (R/A number) from the Wyred 4 Sound Service Department. Be sure to confirm the current shipping address.
3. Insure and accept all liability for loss or damage to the product during shipment to the W4S facility and ensure all freight (shipping) charges are prepaid.

The product may also be hand delivered to the California facility if arrangements with the Service Department have been made in advance. Proof of purchase from an authorized Wyred 4 Sound dealer, distributor or agent will be required for warranty validation at the time of hand delivery. Use the original packaging to ensure the safe transit of the product to the factory, dealer, or distributor. **Wyred 4 Sound may, at its discretion, return a product in new packaging and bill the owner for such packaging if the product received by Wyred 4 Sound was boxed in nonstandard packaging or if the original packaging was damaged to the point it was unusable.** If Wyred 4 Sound determines that new packaging is required, the owner will be notified before the product is returned. To purchase additional packaging, please contact your authorized Wyred 4 Sound dealer, distributor, or the Wyred 4 Sound Service Department for assistance.

If you did not purchase the product directly from us and require service please contact your dealer or distributors' service department for information regarding service.

If you feel your authorized dealer or distributor is either unwilling or unable to service your Wyred 4 Sound products, please contact our service department by emailing support@wyred4sound.com or the phone number listed below to discuss and resolve the situation.

Specifications

Typical THD+N 8Ω (10W out)	0.002%
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Power Output 8Ω @ 0.2% THD+N	255W
Power Output 8Ω @ 1.0% THD+N	277W

Power Output 4Ω @ 0.2% THD+N	430W
Power Output 4Ω @ 1.0% THD+N	462W

Output Idle Noise	< 125μV
Frequency Response 20Hz--20kHz	± 0.2db
Lower Bandwidth	1.5Hz all loads
Balanced Input Impedance	100k
Unbalanced Input Impedance	100k
Dynamic Range	111db
Gain	30.5db
Sensitivity	1.35V
Output Impedance	0.018Ω
Min Load	3Ω
Max Output Current	30A
Idle power consumption	9.5W
Standby power Consumption	<0.5W

Wyred 4 Sound

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