

# PS-1

MODULAR LINEAR POWER SUPPLY



## USER MANUAL



*Wyred 4 Sound*

# What's Included

- PS-1 modular power supply unit
- Detachable power cable
- One or more pre-installed power module(s), based on your initial order
- DC cable lead for each power module
- User manual

# Contents

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# Important Safeguards

- All the safety and operating instructions should be read before this product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the appliance and in the operating instructions should be adhered to.
- Follow all instructions.
- The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like.
- Clean only with soft, dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way such as the power cord or plug is damaged. Other damage may occur if liquid or objects have been dropped or spilled into the apparatus. Dropping the apparatus, exposure to rain, and excessive moisture may cause additional damage.
- Keep the unit in a well ventilated environment. Ensure at least 4" clearance around top and sides.
- CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- WARNING: To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.

- ⚡ 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.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- **WARNING:** The terminals marked with symbol of “+/-” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready made insulated leads or cords.
- Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.
- Keep your packaging! It is custom made for your unit and will effectively protect it for possible future use.
- Be sure to register your product. It is very important to complete the warranty registration form located on our website. Complete and submit the form within 30 days of purchase to activate your warranty.



#### **FCC Warning**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

# Introduction

The PS-1 modular linear power supply represents a unique and innovative approach to designing a linear power supply. Knowing the sonic benefits of a clean, robust, quiet power supply for low voltage DC-powered devices, our customers have asked us repeatedly to make one. When we decided to move forward with the project, we knew we wanted to provide our customers with what they have come to expect from us: state-of-the-art design, forward thinking and incredible value that others are not offering. We're confident the PS-1 handily delivers all three. We hope you enjoy your new PS-1.

## Design Features

The PS-1 is a *modular* linear power supply. As such, it is unique to the market. The PS-1 can grow with your audio system, allowing you to purchase more power modules as needed for your devices without having to buy separate power supplies for all of them. From many perspectives, one can appreciate the value behind this approach. What's more, each power module's voltage is independent and user-selectable. One can have up to four devices, operating at any combination of 5, 9, 12 and/or 15 volts. Up to four devices, one power supply. That's the beauty of the PS-1!

Powering each module, you will find an extremely robust R-core transformer, connectors and circuitry. Using the PS-1 will result in noticeably reduced noise and more transparent sonics, coupled with increased authority.

Finally, we wanted to make the PS-1 compact and easy to use. In our opinion, a power supply doesn't need to be the same size and weight as an amplifier! The PS-1, by design, is easy to work with and place in any system for many uses.

## Using the PS-1

**⚠ CAUTION:** *The PS-1 contains no user-serviceable parts. Hazardous voltage, current and energy levels are present inside the unit. Do not open the PS-1 under any circumstances; doing so is potentially dangerous and will void the warranty. Should you suspect service is needed, disconnect the power cord from the PS-1 and contact your dealer or Wyred 4 Sound.*

**A note about terminology:** "Power zone" refers to each of the four slots in the back of the PS-1, capable of holding one power module each. A "power module" is the individual board that slides into one of the power zones.

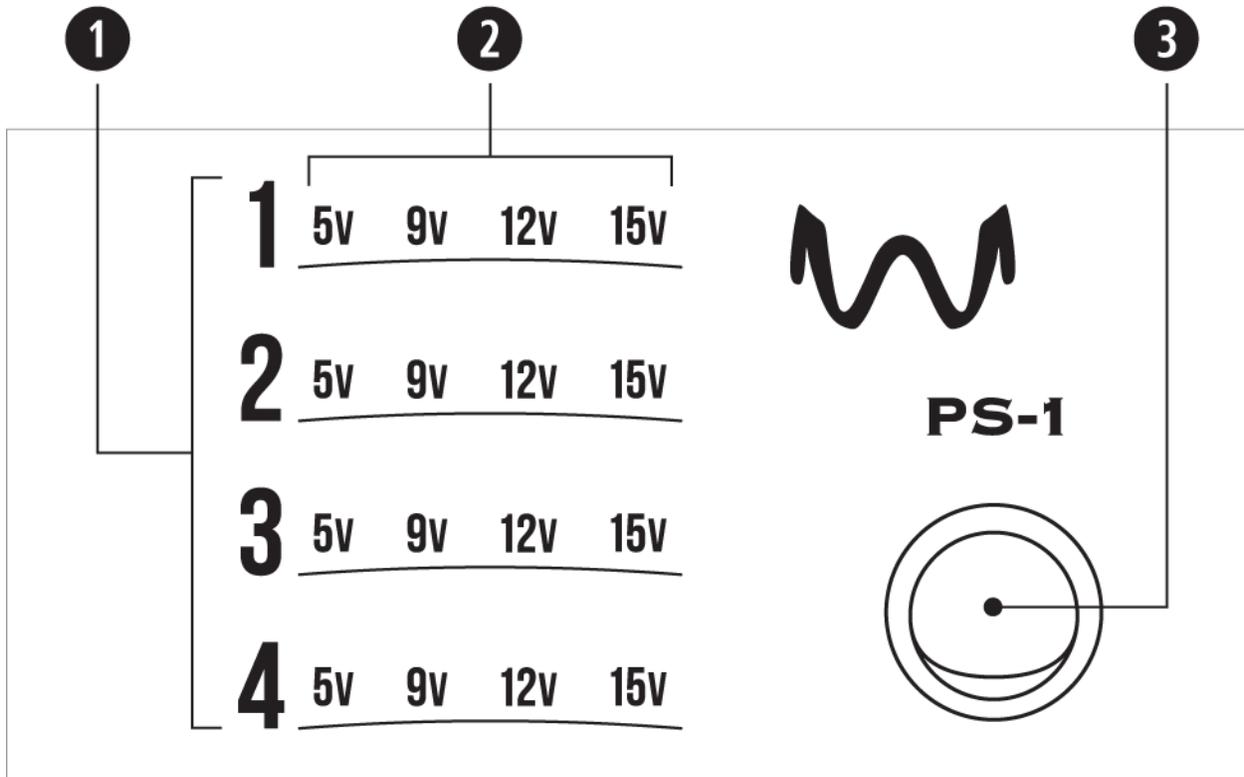
When you first receive the PS-1, carefully unpack the contents. You should have received all items listed under "What's Included" at the beginning of this User Manual. We highly recommend retaining all packaging materials in case shipping the PS-1 is necessary in the future.

Place the PS-1 in a well-ventilated, dirt and moisture free area. There should be adequate space around the sides to allow for airflow. The PS-1 might get a bit warm to the touch; this is normal. However, allowing for proper airflow will reduce any heat and ultimately prolong the life of your products.

Connect your device(s) to the PS-1 using the provided DC cable(s). Connect the included power cable to the PS-1 AC inlet and the other end to a power strip or wall receptacle.

The PS-1 will come with ALL power module(s) pre-installed and set at 5v. See the next sections for diagrams, working with the power modules and setting voltages.

## Front panel



The front panel display tells the user which power zones are being used ( 1, 2, 3, 4) and which voltage is set per power module (5v, 9v, 12v or 15v). If a power module is added, removed and/or a voltage is changed, the display will update automatically.

### 1. Power Zone Use Indicator

If a power zone is occupied with a power module, the corresponding zone number will light. Unoccupied zones remain unlit on the display.

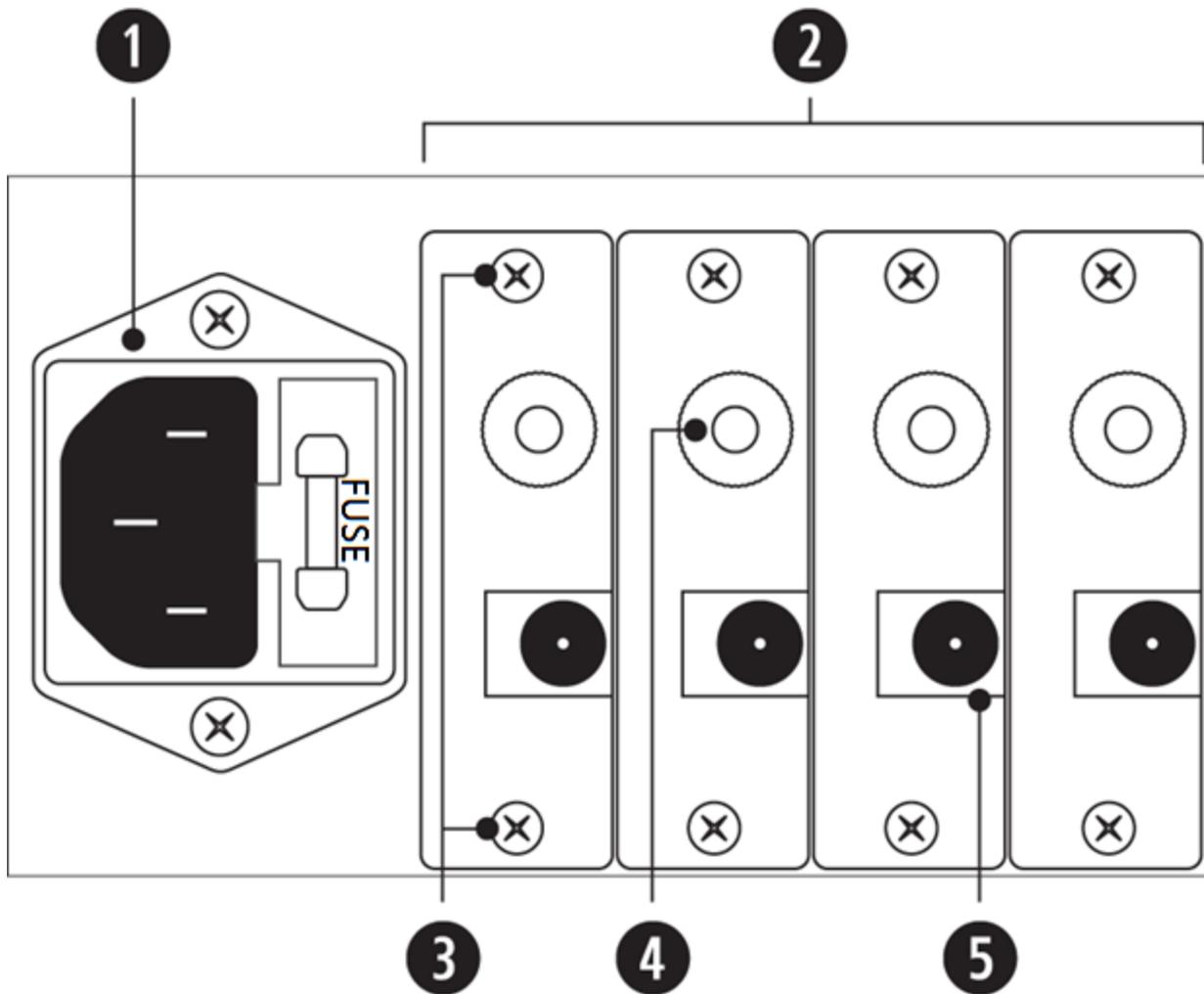
### 2. Power Module Voltage Indicator

Each power module can be set to one of four voltage settings using the small slide-switch on the power module itself. The front panel display will indicate the selected voltage for the power module in each power zone.

### 3. Power Switch

Flip the switch up to power on the PS-1, down to it power off. We recommend turning the PS-1 off when components are not in use.

## Back Panel



### 1. AC Inlet

Attach power cable here. Be sure to observe proper AC voltage noted on the Serial label on the bottom of the unit. The mains fuse is also located inside the fuse drawer as shown in the illustration above (to the right of the AC socket).  
*Note: the PS-1 is not a surge protector and does not offer surge protection.*

### 2. Power Zones

There are a total of four power zones on the PS-1, designated 1-4 on the top lip of the bottom plate. Each power zone can hold a single power module.

### 3. Power Module Screws

Using a Philips screwdriver, unscrew/rescrew these screws before removing and after replacing a power module.

### 4. Thumb screw

Provides an easy way to grip a power module for removal/insertion

### 5. DC Connection

Plug the included DC cable here and connect the other end to your device

# Using the Power Modules

⚠ **CAUTION:** Be sure the PS-1 is switched OFF and unplugged before inserting or removing the power module(s). If not, damage or injury may occur. Do not attempt to exceed the maximum output of the PS-1 for any device. Damage may occur and warranty will be voided.

## Handling a power module

Take care when handling a power module and inserting in or removing it from a power zone. We recommend using the large thumb screw for this purpose and for general handling. Try to avoid touching the board surface or components themselves. Some of these areas are protected but others are still vulnerable to damage.

## Steps for setting the Voltage

1. Using a Philips screwdriver, unscrew the top and bottom screws from the power module (refer to “Back Panel” diagram (3), on the preceding page).
2. Gently slide out the power module by pulling on the Thumb screw (4).
3. Set the voltage for the desired setting. Each power module for the PS-1 is capable of powering a DC-powered device up to 1.2A (peak) ranging from 5 volts to 15 volts. On the top of each power module you will see a small slide switch and four voltage settings, labeled 5v to 15v. Move the switch to the desired voltage setting.
4. Gently slide the power module straight in until you feel the power module has connected internally. When sliding a power module into a power zone, do not use force. **(We have found the best way reseal the module is to locate DC connector (5) and apply pressure as if you were pushing your finger into the DC jack itself.)** The power module should slide in rather easily and then connect inside the PS-1 snugly. Replace the screws after the power module plate has mated against the rear panel..
5. When finished setting desired voltages and all power modules are re-inserted, turn the PS-1 on and verify on the front display that the power zones are displaying the desired voltage for each power module.
6. After proper output voltage verification has been made, you may now connect your gear to enjoy your new PS-1.

# Troubleshooting

## No Power or Sound?

1. Verify that the PS-1 is plugged securely into a working wall outlet/power strip and turned on. The front panel will light if so. If the front panel does not light at all, please check the fuse in the PS-1 located in the AC Inlet.
2. Ensure none of your components are in 'mute'.
3. Verify that the DC cable is securely plugged into the back of the PS-1 and your device.
4. Ensure your device is powered on.
5. Remove the power module and verify it is set to the correct voltage. Ensure that when you re-insert the module it is snug inside the PS-1 and illuminates the corresponding zone on the front panel.

If you are still experiencing problems after checking all possibilities and using the resources provided please contact your dealer or Wyred 4 Sound directly for further assistance.

## Warranty Coverage

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) unauthorized removal of cover (f) 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 your Wyred 4 Sound representative. Wyred 4 Sound or its Wyred 4 Sound 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.

# Service

In the event there is a problem with your Wyred 4 Sound component, first contact your dealer, distributor, or Wyred 4 Sound directly to discuss the issue before you return the component to our manufacturing facilities 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).**

## Wyred 4 Sound

Phone: +1 (805) 466-9973

Fax: +1 (805) 462-8962

Email: [support@wyred4sound.com](mailto:support@wyred4sound.com)

Website: [wyred4sound.com](http://wyred4sound.com)

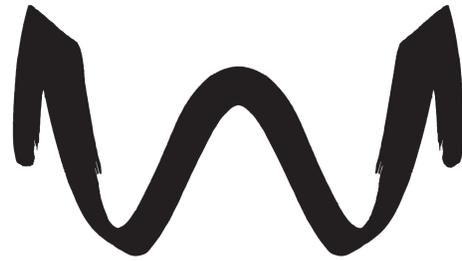
Office hours: Mon - Thurs: 7am - 4:30pm. Fri: 7am - 11am, PST

## Service procedure

1. Contact your dealer or Wyred 4 Sound to discuss the issue(s)
2. If repair is deemed necessary, fill out the online Service form at [wyred4sound.com/support/service-request](http://wyred4sound.com/support/service-request)
3. After the form is received, Wyred 4 Sound Service Department will email you an RA number and instructions.
4. Write the RA number on the outside box. Insure and accept all liability for loss or damage to the product during shipment to the Wyred 4 Sound factory 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 of the original packaging to ensure the safe transit of the product is strongly recommended. To purchase additional packaging if needed, please contact your authorized Wyred 4 Sound dealer, distributor, or the Wyred 4 Sound Service Department for assistance.

Voltage changes to match your country's voltage and frequency requirements to your Wyred 4 Sound product are possible only at the time of purchase. The SX-1000R amplifier is set to a fixed voltage to match your country's requirements and may not be easily changed. Should voltage change be required, contact Wyred 4 Sound.



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