

*Wyred 4 Sound*

## **PH-1**

Phono-Stage with External Power Supply



Owner's Manual

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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.
- **CAUTION:** 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.

## **Package Contents**

- 1 – PH-1 Phone-Stage Unit
- 1 – External Power Supply Box
- 1 – Detachable Power Cable
- 1 – User Manual

## **Introduction & Design Features**

Although the PH-1 is new to our product line, the product is not new to us. We've had the luxury of designing and working with our OEM customers on such products in the past which has given us the knowledge to perfect our now PH-1. The main design criteria for our phono-stage were to be ultra-quiet, eliminating external noise wherever possible, and to allow for maximum flexibility and future compatibility. The PH-1 is an ultimate example of what happens when both design and function are in balance!

The PH-1 Phono-Stage circuit was designed from ground up for minimal noise and maximum separation between channels. An external power supply has been implemented for ultimate relocation of noisy AC mains where most overlook such importance. The case used in constructing the PH-1 is fabricated out of steel to further assist in isolation from external noise. Finally the unit includes an unbalanced to balanced conversion (through the balanced outputs) as an additional way of eliminating any possible noise from your vinyl listening enjoyment!

To enhance flexibility and assure future cartridge compatibility the PH-1 includes a gain and loading control allowing for matching of cartridge manufactures recommendations. The loading control allows for fine tuning of the audio characteristics of the phono-stage based on optimal settings for your connected cartridge.

## **Unpacking your PH-1**

**CAUTION:** *The PH-1 and external power supply contain no user-serviceable parts. Hazardous voltage, current and energy levels are present inside. Do not open the PH-1 or the power supply 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 PH-1 and contact your dealer or Wyred 4 Sound.*

When you first receive the PH-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 PH-1 is necessary in the future.

Place the PH-1 in a well-ventilated, dirt and moisture free area. There should be adequate space around the sides to allow for airflow. The PH-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.

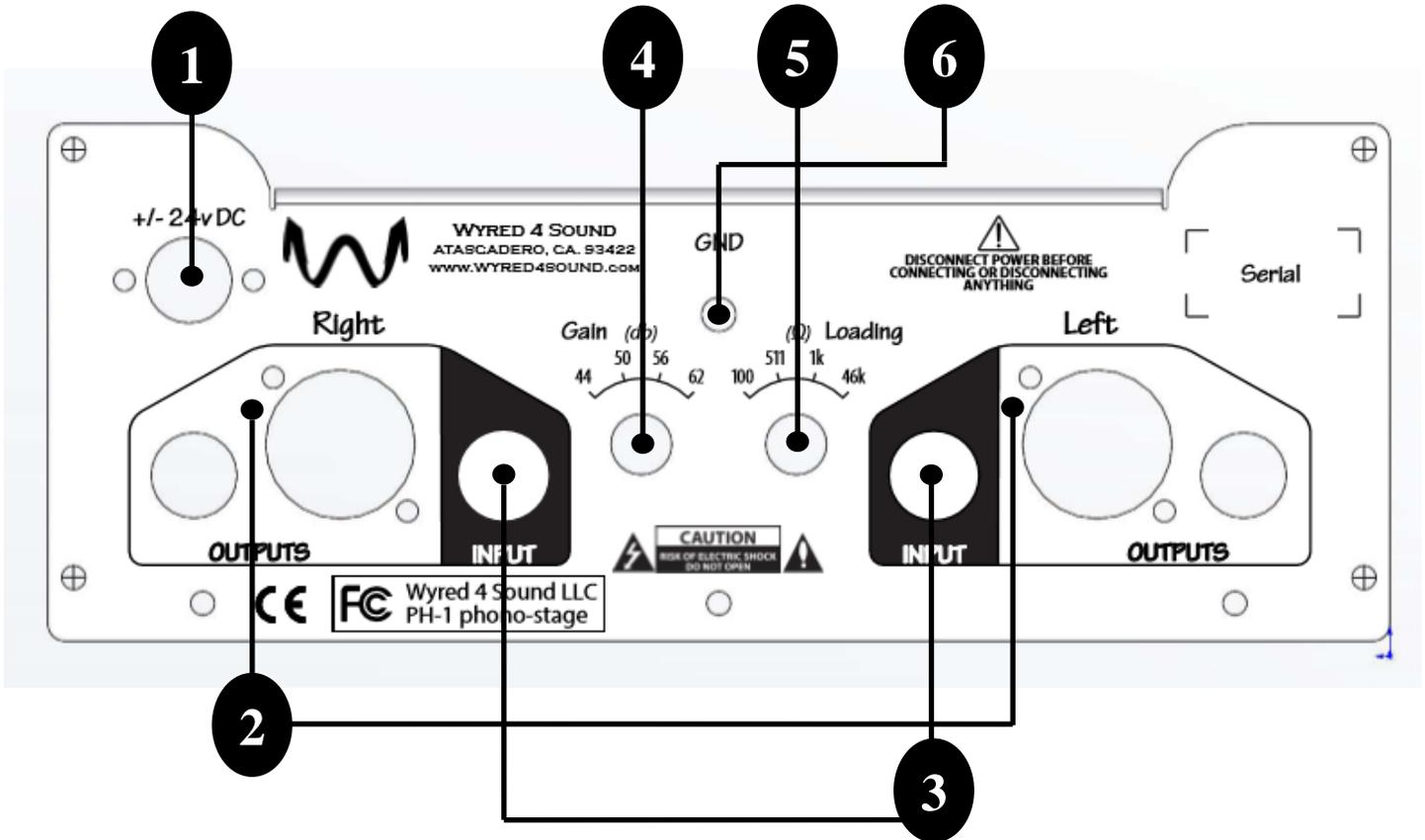
Connect power to your PH-1 using the provided DC cable from the provided DC power supply. Connect the included power cable to the power AC inlet and the other end to a power strip or wall receptacle.

## **Front Panel**

### **Power Switch**

Press the button to power on the PH-1, press the button again to power off. We recommend turning the PH-1 off when it is not in use. A blue led light on the power button illuminates when the PH-1 is turned on, green when in standby.

## Back Panel Diagram



### 1. Power Supply Connection

Attach cable from the External Power Supply here.

### 2. Outputs

Use either Balanced (XLR) cables or Single Ended (RCA) cables.

### 3. Inputs

Connect the Single Ended (RCA) cables from your turntable here.

### 4. Gain Control

### 5. Loading Control

### 6. Ground Connection

Connect the ground cable from your turntable here.

## Using the Phono-Stage

**CAUTION:** Please be sure that the power is turned off before connecting your turntable to the unit or connecting the PH-1 to your pre-amplifier.

➤ Refer to the diagram on page 6 for the locations of the numbers in the instructions below

Before using the PH-1 the external power supply should be connect to the PH-1 (1) and then connect the included power cable to an AC outlet. Please make sure that the unit is connected to power and is in standby then connect the ground lead from the turntable to the ground terminal (6) on the unit before making any audio connections.

Now it is safe to connect the left and right RCA cables from your turntable to the left and right input terminals (3) on the PH-1. Also connect the output terminals (2) to your amplifier. Either RCA unbalanced or XLR balanced cables can be used depending on which are supported by your preamplifier.

The *Gain* control (4) is used to match the setting recommended by the cartridge manufacture for the cartridge that you are using. Please set the gain at 44db, 50db, 56db, or 62db accordingly.

The *Loading* control (5) should be initially set by the cartridge manufactures recommendations. This control does allow for fine tuning of the sound characteristics by varying the loading setting.

Most importantly, enjoy your new PH-1 Phono-Stage!

## Specifications

Gain Selectable	44db, 50db, 56db, 62db
Noise	44db = 29uv (20-20kHz), 62db = 190uv (20-20kHz)
RIAA Accuracy	0.12db @ 44db gain (5mv in RIAA Equalized 20-20kHz)
THD @ 1kHz	5mv @ 62db .0009% (20-20kHz Balanced out)
Loading	100Ω (0.047uf), 511Ω (0.01uf), 1kΩ (4700pf), 44k (47pf)
Input Overload 1kHz	44db = 85mv, 62db = 10mv
s/n 85mv in (44db)	111db (Awt 20-20kHz Balanced out)
s/n 10mv in (62db)	95db (Awt 20-20kHz Balanced out)
Max output	13v RMS Balanced, 6v RMS Unbalanced
Output Impedance	100Ω Balanced, 100Ω Unbalanced

## Troubleshooting

### No Power or Sound?

1. Verify that the PH-1 is plugged securely into a working wall outlet/power strip and turned on. The front panel will light if so.
2. Ensure none of your components are in 'mute'.
3. Verify that the cable is securely attached into the back of the PH-1 and your turntable.
4. Ensure your turntable is powered on and playing an album.

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

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### **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).**

#### **To contact the Wyred 4 Sound Service Department:**

Telephone: 805-466-9973

Hours: M/TH 7:00 am to 4:30 pm; Friday 7:00am to 11:00am PST

Fax: 805-462-8962

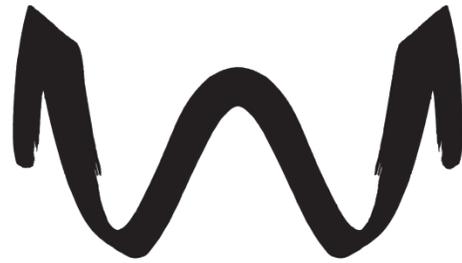
Email: [support@wyred4sound.com](mailto:support@wyred4sound.com)

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

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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