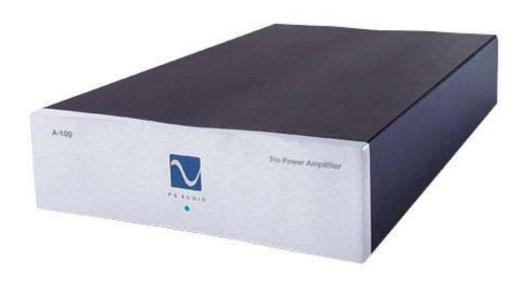


Owner's Reference

Owner's Reference A-100 Power Amplifier

Instructions for use



Trio A-100 Power Amp



Introduction

Owner's Reference A-100 Power Amplifier

Important Safety Instructions



Read these instructions Heed all warnings Follow all instructions



WARNING. TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPARATUS TO BAIN OR MOISTURE.

Clean only with a dry cloth.

Do not place flammable material on top of or beneath the component.

All PS Audio components require adequate ventilation at all times during operation. Rack mounting is acceptable where appropriate.

Do not remove or bypass the ground pin on the end of the AC cord unless absolutely necessary to reduce hum from ground loops of connected equipment. This may cause RFI (radio frequency interference) to be induced into your playback setup. All PS products ship with a grounding type plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Unplug this apparatus during lightning storms or when unused for long periods of time.

When making connections to this or any other component, make sure all components are off. Turn off all systems' power before connecting the PS Audio component to any other component. Make sure all cable terminations are of the highest quality.

There are no user serviceable fuses inside this product.

THERE ARE NO USER-SERVICEABLE PARTS INSIDE ANY PS AUDIO PRODUCT. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL

Please contact your authorized dealer, distributor, or PS Audio if you have any questions not addressed in this reference manual.

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Introduction

Owner's Reference A-100 Power Amplifier

Thank you Thank you for your purchase of the Trio A-100 power amplifier.

The A-100 stereo amplifier is a dual mono power amplifier, capable of driving nearly every loudspeaker load with ease and beauty. The Trio power amplifier is based on ICE power switching amplification

for the output.

Cool and efficient

running

The A-100 has two high efficiency digital amplification stages that allow them to run cool to the touch even while driving demanding loads and should offer years of trouble free performance of the highest

standards.

Power ratings Power ratings for the A-100 are 100 watts rms into 8 Ohms, 200 watts rms into 4 Ohms at less than

0.1% THD. For musical peaks, the Trio can produce up to 150 watts per channel into 8 Ohms and

300 watts per channel into 4 Ohms.

What you can

expect

You should expect state of the art performance and sonics from any PS Audio product. The Trio series products represent high value in terms of performance within their rated power levels and will

provide excellent results in either a two channel or multi-channel environment.



Getting Started

Owner's Reference A-100 Power Amplifier

Location Once your new A-100 Power Amplifier is unpacked, you'll need to find a convenient place to set it.

There are several ways to mount the A-100 Power Amplifier: on a rack shelf, on the floor behind the

loudspeakers or on shelf near your preamplifier.

Cautions If the Trio A-100 Series Power Amplifier is to be placed on the floor or carpet, make sure the unit is

not going to come in contact with water or cleaning solvents. Make sure the carpet does not interfere

with airflow to the amp.

Isolation The A-100 can benefit from aftermarket isolation devices such as cones, spikes and Sorbothane

pads.

Power Cables Once you have chosen the location for the A-100 you can use the supplied AC power cord to connect

it to the AC wall receptacle or you can use an aftermarket power cord and receptacle.

We strongly recommend the use of a PS Audio xStream Power[™] AC cable and a PS Power Port[™] AC receptacle to feed the A-100 power. While the supplied power cable is adequate for the task it is not going to provide the best performance. Choosing any xStream Power cable will make a significant

performance improvement over the stock power cable.

Conditioners We recommend the use of power conditioning equipment, such as a PS Audio Power Plant, UPC-

200 or any of the Ultimate Outlet or Power Director series from PS. We do not recommend the use of simple AC filter power conditioners not made by PS Audio as most of these will "bleach" the sound and rob the music or video soundtrack of life and dynamics. If you do not use PS Audio power conditioning equipment, you would be advised to plug the GCA Power amplifier directly into the AC

wall receptacle.



Quick Start Guide

Owner's Reference A-100 Power Amplifier

Once you have decided on the location and chosen the appropriate power cables, you are ready to install the A-100 Power Amplifier.

Power down first

We would recommend that you power the entire system down before attempting to insert the A-100 Power Amplifier.

Insert the A-100 Power Amplifier into the system. Make sure the rear mounted power switch is in the off position.

Connect the inputs

Connect the inputs of the A-100 Power Amplifier to the output of your preamplifier, surround processor or preamp outputs of a receiver or integrated amplifier. There are two choices of inputs: balanced or single ended. Once chosen, you must switch to the appropriate input via the rear mounted input selection switch on the A-100 Power Amplifier.



Balanced inputs

Balanced inputs require a preamp or source that has a balanced output. These

outputs are the preferred method of connection as a balanced XLR type of output allows the lowest noise connection between preamp and power amp, and allow owners to take advantage of the high common mode rejection characteristics of the A-100 Power Amplifier. Be sure to use a high quality well shielded and well regarded interconnect for this critical link. PS Audio makes an entire line of excellent choices for interconnects, perfectly matched to your equipment's needs. Input impedance is 100K.

RCA inputs

RCA or single ended inputs will be the typical inputs as many preamplifiers, surround processors, receivers and integrated amplifiers have only this standard type of input. Be sure to use a high quality well shielded and well regarded interconnect for this critical link. PS Audio makes an entire line of excellent choices for interconnects, perfectly matched to your equipment's needs. Input impedance is 50K

Rear switch

Make sure the rear mounted input selection switch is placed in the appropriate position, either XLR or RCA (balanced or single ended). The switch must match the input you are using. Only one input on the A-100 Power Amplifier can be used at a time, either XLR or RCA.

Bi-amp

To bi-amp, you can choose to place a single input and it will feed both channels. This will allow you to use one channel of the A-100 for the tweeter of your speaker and the other channel for the woofer and midrange. This will only work if your loudspeakers have two sets of input binding posts, one for the tweeter and the other for the woofer midrange. The switch for this is located on the rear of the A-100, between the inputs and outputs. You must use the left input, XLR or RCA for this mono operation.

Speaker Cables

4826 Sterling Drive, Boulder, CO 80301

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Quick Start Guide 2



Quick Start Guide

Owner's Reference A-100 Power Amplifier

Check for porper polarity

Speaker cables are a critical link between your loudspeakers and your new A-100 Power Amplifier. Pay close attention to the polarity on the rear panel binding posts. It is critically important that you match plus and minus (red and black) of the A-100 Power Amplifier to the plus and minus of your speaker. Carefully observe the polarity. The plus or red terminal of the A-100 Power Amplifier must eventually be tied to the plus or red terminal of your loudspeaker. The A-100 Power Amplifier is a noninverting amplifier design meaning it is in phase with the input signal.

Be careful when connecting a subwoofer

Most subwoofers have low level inputs only, as in an RCA or XLR connector. Some subwoofers have

high level inputs where the output of the amplifier can be connected as an input to the subwoofer. Generally there is no problem. In a few rare instances there may be a problem, which will show itself as problematic if the amp's protection comes on after hooking up the sub. REL subwoofers and some Sunfire subwoofers can be problematic. Please check with the factory or your dealer if you encounter these subwoofers or any problems.

The binding posts, on the rear panel of the A-100 Power Amplifier will accept either spade or banana

type connectors. To use a spade or forked connector, simply unscrew the binding post, place the tongs

Push this pin out of the spade over the threaded binding post and tighten the outer barrel of the binding post. It is permissible to us a wrench to tighten the binding post down.

Connecting a banana style

The banana style connectors should be inserted into the center hole on the rear of the binding post. To use banana connectors, you will need to remove the plastic insert blocking it. To do this, unscrew the binding post almost all the way open. Look inside the small hole on the shaft of the binding post and note the small pin that prevents the outer cap of the binding post from being removed. Using a small metal pointed tool, push the metal pin until it is removed. This will allow you to unscrew the outer binding post cap all the way and remove the plastic center pin.

Turn the rear panel master power switch on

Turn your equipment back on. Make sure everything is powered up properly with the A-100 Power Amplifier between the AC receptacle and your AV equipment.

Make sure the preamplifier or surround processor that is feeding the A-100 Power Amplifier is turned on first. Then, turn the rear panel power switch on the A-100 Power Amplifier to on and power up the A-100 Power Amplifier. There is a normal 2 second delay for the amplifier once powered up.

Binding posts

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be clear



Questions And Answers

Owner's Reference A-100 Power Amplifier

Should the unit be on all the time?

The A-100 Power Amplifier is best left powered on at all times. The current draw is negligible and keeping it powered on will make sure the internal AC capacitors stay working properly.

There is no harm in leaving the unit on at all times as the lifespan of the A-100 Power Amplifier will be unaffected by leaving it on.

Are there any internal fuses?

There are no user replaceable internal fuses inside the A-100 Power Amplifier. There is an internal fuse that should only be replaced by an authorized service center if needed. The components inside the A-100 Power Amplifier have lethal voltages when powered and even when un-powered. Capacitors inside the A-100 Power Amplifier can retain an electrical charge after the unit has been powered down. Do not attempt to get inside the unit for any reason unless instructed to do so by your dealer or an authorized service representative. Should the A-100 Power Amplifier cease to function, contact your dealer or PS Audio's service center for help.

Placement?

Placement of the A-100 Power Amplifier is not critical. Placement with respect to other equipment can be important. In general, place the A-100 Power Amplifier close to the preamplifier or surround processor as possible. It is always preferable to have long speaker cables and short interconnects if there is a distance problem. Long interconnect cables will degrade the performance of most preamplifiers, surround processors or integrated amplifiers and receiver preamp outputs.

Isolation?

Isolation through the use of spikes, cones or Sorbothane feet is recommended for the A-100 Power Amplifier if space and budget allows. Isolation of any piece of high-end stereo and theater equipment is always recommended wherever practical.

Do cables make a difference?

Yes, cables make a difference. It is important to use the best power cables, interconnects and speaker cables when operating the A-100 Power Amplifier.

Power switch

There is only one power switch for the A-100 and it is located on the rear of the chassis.

Bi-amping

To bi-amp with the Trio, you need only one interconnect (either XLR or RCA) to feed both channels of the Trio. Using the rear mounted switch, choose "mono" and use the left input. This will feed both the left and right channels with the same signal.

Benefits of bi-amping. Bi-amping is possible in two configurations, horizontal or vertical. Horizontal describes using one stereo amplifier to power both woofer/midrange sections of a speaker and using the second stereo amplifier to power both left and right loudspeaker tweeters. Vertical bi-amping describes the preferred method of bi-amping. This is where one stereo power amplifier powers a single loudspeaker (either left or right). One channel of the stereo amplifier feeds the tweeter of the loudspeaker and the other channel feeds the woofer midrange.

What speakers can I use?

You can power nearly every loudspeaker made with a A-100 Power Amplifier. It is relatively tolerant of most loudspeakers loads and will not be damaged by attempting to power heavy loads. If, while playing music, the A-100 Power Amplifier continues to go into a protection mode when the music gets loud, it means that the speaker load is probably too difficult for the A-100 Power Amplifier and the next

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Questions And Answers

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higher wattage model should be considered.

What voltages can the amp run on?

The A-100 Power Amplifier is specific to your country's voltage. Do not use the A-100 Power Amplifier on a voltage higher than it is rated for. For instance, do not take a 120 volt rated A-100 Power Amplifier and attempt to use it in a 230 volt country. Failure to observe this cautionary note will void your warranty and may damage the amplifier. If you need to operate the A-100 Power Amplifier at a voltage other than the voltage it was designed for, contact your dealer, distributor or the factory.

Protection circuitry

If the A-100 Power Amplifier protection circuitry is activated, the amplifier will immediately shut off. You need to switch off the rear power switch and then turn it back on to reset the amplifier's protection circuitry.

Does the amp require ventilation?

The A-100 Power Amplifier produces little heat under normal operation.





Troubleshooting

Owner's Reference A-100 Power Amplifier

No sound comes out of the amp

If no sound comes out of the A-100 Power Amplifier there are several areas to check. Either you are not getting an audio signal into the amplifier, you are not properly connected to the loudspeakers so the audio can get out of the amplifier, or there is no power from the AC socket.

Check the input

It is obviously important that the A-100 Power Amplifier receive a high level signal from the preamplifier, surround processor or whatever source you are feeding it. One way to determine if this is the case, would be to first go to your loudspeaker. Place your ear near the tweeter and listen for a very slight hiss. If you hear one, chances are good the amp is working fine, connected properly at the speakers and you have an input problem. If you suspect an input problem, the first thing to check is the rear panel switch. The switch on the rear of the A-100 Power Amplifier is an input selector. With a source connected to the preamp and the preamp volume turned up, click the rear mounted input selector on the A-100 Power Amplifier to both positions and see if this solves the problem.

Check the rear input selector first

If not, place the switch to the proper position and replace the interconnects between the preamp and power amp. At last resort, if you suspect an input problem, try another preamp, or plug the output of your CD player or DVD player directly into the A-100 Power Amplifier. Be careful to choose a CD or DVD with relatively soft music because this will play very loudly.

Try another source

If you suspect an output problem

If you suspect an output problem, use the same technique of placing your ear very close to the speaker's tweeter while the A-100 Power Amplifier is turned on. You should hear a very slight amount of hiss from the tweeter. If you do not, check the speaker cable/amp connection. Make sure the amp's front panel light is on, indicating proper performance.

If there is no sound and you are convinced the A-100 Power Amplifier has power and its front panel light is lit, contact your dealer, distributor or PS Audio for further assistance.

If there is a lot of hiss in your speaker If there is an excessive amount of hiss or noise from the loudspeaker, it is probably not from the A-100 Power Amplifier as this amp has extremely low self noise. Turn the amp off, remove the interconnect cables from the A-100 Power Amplifier and then turn the amplifier back on. Listen once again to see if the noise has been diminished. If it has, chances are good you either need to replace your preamplifier with a quieter one or you may need to experiment with better shielded interconnect cables.

If you have hum or buzz

If you experience a hum through the speakers this can be caused by several things. The first is the source. If there is an excessive amount of buzz or noise from the loudspeaker, it may be caused by a ground loop, a light dimmer in the home, poor AC power, or any number of causes. The quickest way to determine where to start your search is to simply turn the amp off, disconnect the cables feeding its input, and see if the hum goes away when you turn it back on. If it does, it's most likely a ground loop or buzz from a dimmer.

The easiest way to figure out where ground loop problems lie is by the process of elimination. You need to determine where the hum or buzz is coming from within your system.

If the hum/buzz goes away when you remove the inputs to the power amp, your next step will be



Troubleshooting

Owner's Reference A-100 Power Amplifier

Finding a ground loop

to reconnect the amp and move further down the chain. If you were working with a receiver or an integrated amplifier, you will need to jump to step 4. If you have a preamp, or processor that is feeding the power amp, your next step would be to disconnect all inputs to the preamplifier or processor. Once these are disconnected, and the preamp or processor is connected only to the power amplifier, turn the system on and again, listen for hum. Should the hum now appear, it is a problem with your preamp or processor or their interaction with the power amp. Before returning the preamp or processor to the manufacturer, try a cheater plug to break a ground loop. Cheater plugs are simple devices that convert a three prong AC plug into a two prong AC plug and in the act of converting three prongs, to two prongs, they disconnect the ground from the wall socket. Try one of these on the preamp, or the power amp, or both.

Try a cheater plug

Process of elimination

If you determine that there is still no hum present when the preamp, processor or receiver is connected with no inputs, then selectively begin plugging in your various inputs one at a time. After each connection, check for hum until you discover the humming culprit.

It could be the cable TV

VCR's, surround processors, and any device that is connected to a television cable or satellite dish can cause a loud buzz and should always be suspect. If, by the process of elimination described above, you determine it is a component like a VCR that is causing the hum/buzz to occur, and using a cheater plug or removing the ground pin on a PS xStream Power Cable doesn't help matters, it may be necessary to isolate the cable connection (CATV) with an isolation transformer. This inexpensive device is available at most Wal Mart, Radio Shack or department store type outlets and is sometimes called a 'matching transformer'. If you have problems finding one, call your local cable TV company for advice. The matching transformer will be placed between the cable TV cord and the VCR, TV or processor.

Just remember, take the system down to its simplest level of connection. Find a way to hook the system up with as many pieces of the system missing or not connected. Keep it simple and get it to the point where the hum's gone. Then start adding back components one at a time until the hum returns.

Finding the problem is 9/10th of the work in finding a solution.

Problems with subwoofers

If you have a problem connecting a subwoofer, please refer to the quick start guide in the front of this manual. We do not recommend connecting the high level inputs of a self power subwoofer to the outputs of the A-100 Power Amplifier. For many subwoofers it will be fine. Some, like the REL subwoofers, and the Carver Sunfire type of subwoofers will not work properly when connected to the A-100 Power Amplifier's outputs. This is because the A-100 is a balanced type of output with a DC voltage as referenced to ground.

If the A-100 shuts off when playing music, there are several possibilities. If the music plays quite loudly but shuts off on the most explosive parts of the music of video soundtrack, then the A-100 Amplifier is probably underrated for the type of speaker you are using. See your dealer or call PS Audio for advice on going to the next size power amplifier.

If the amp shuts down while playing music

If the amplifier shuts down with very little volume, then check the speaker cable connections. The

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Troubleshooting 7



Troubleshooting

Owner's Reference A-100 Power Amplifier

A-100 Power Amplifier can actually play music at low levels even into a near short on its outputs. Chances are good that you have a shorted connector (plus touching the minus) and you should simply check carefully on the back of the speaker and the back of the amplifier.



Warranty

Owner's Reference A-100 Power Amplifier

TERMS AND CONDITIONS

PS Audio warrants the product designated herein to be free of manufacturing defects in material and workmanship, subject to the following conditions, for a period of 90 days from the date of purchase by the original purchaser or date of shipment to the authorized PS Audio dealer, whichever comes first. This warranty period can be extended to three (3) years by registering your product. To register, go online www.psaudio.com.

Conditions

This Warranty is subject to the following conditions and limitations: the Warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused, or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being repaired or tampered with by anyone other than PS Audio or an authorized PS Audio repair center.

- a. The product must be packaged and returned to PS Audio or an authorized PS Audio repair center by the customer at his or her sole expense in the original packing material. PS Audio will pay return freight of its choice for original purchasers.
- b. Return Authorization Number (RA Number) is required before any product is returned to our factory for any reason. This number must be visible on the exterior of the shipping container for PS Audio to accept the return. Units shipped to us without a Return Authorization Number or without a visible RA Number on the exterior of the shipping container will be returned to the sender, freight collect.
- c. RETURNED PRODUCT MUST BE ACCOMPANIED BY A WRITTEN DESCRIPTION OF THE DEFECT.

PS Audio reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

Remedy

In the event the product fails to meet this Warranty and the above conditions have been met, the purchaser's sole remedy under this Limited Warranty shall be to return the product to PS Audio or an authorized PS Audio repair center where the defect will be repaired without charge for parts or labor.

This Warranty is for the benefit of the original purchaser of the covered product if the product has been purchased through an authorized PS Audio dealer, distributor or agent. PS Audio will not honor this warranty without valid proof of purchase from an authorized PS Audio dealer, distributor or agent and or a valid serial number as proof the product is a valid PS Audio product manufactured by PS Audio International.

This warranty does not cover the cost of custom installation, customer instruction, setup adjustments or signal reception problems.

Miscellaneous

This warranty does not cover cosmetic damage or any damage due to accident, misuse, abuse, negligence or modification of, or to any part of the Product, without initial express consent from PS Audio. This warranty does not cover damage due to improper operation or maintenance, **connection** to improper voltage supply, or attempted repair by anyone other than a facility





Owner's Reference A-100 Power Amplifier

authorized by PS Audio to service the Product.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

This warranty is invalid if proof of manufacture by PS Audio International cannot be determined to the satisfaction of the company either by verification of a valid serial number and or a valid receipt that includes the serial number from an authorized PS Audio dealer, distributor or agent.

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call or email PS Audio.

ANY IMPLIED WARRANTIES RELATING TO THE ABOVE PRODUCT SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. THE WARRANTY DOES NOT EXTEND TO ANY INCIDENTAL OR CONSEQUENTIAL COSTS OR DAMAGES TO THE PURCHASER. Some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Inquiries regarding the above Limited Warranty may be sent to the following address: PS Audio International, Inc., 4826 Sterling Drive, Boulder, Colorado 80301 ATTN: Customer Service; Email: customerservice@psaudio.com; Voice 720-406-8946; FAX: 720-406-8967.

Outside the US

PS Audio has authorized distribution in many countries of the world. In each country, the authorized importing retailer or distributor has accepted the responsibility for warranty of products sold by that retailer or distributor. Warranty service should normally be obtained from the importing retailer or distributor from whom you purchased your product. In the unlikely event of service required beyond the capability of the importer, PS Audio will fulfill the conditions of the warranty. Such product must be returned at the owner's expense to the PS Audio factory, together with a photocopy of the bill of sale for that product, a detailed description of the problem, and any information necessary for return shipment.





Owner's Reference A-100 Power Amplifier

If you require service in North America In the unlikely event there is a problem with your PS Audio component, please contact your dealer, distributor, or the PS Audio corporate research center to discuss the problem before you return the component to our California manufacturing facilities for repair. Products shipped to either the factory or the corporate research facilities will be refused and returned freight collect if not accompanied by a PS Audio Service Department issued return authorization number (RA Number).

Obtain an 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.

Contact information

To contact the PS Audio Service Department:

TELEPHONE 866-406-8946 (toll Free)
HOURS M/F 9:00 am to 5:00 pm MST

FAX 720-406-8967
E-MAIL service@psaudio.com
WEBSITE http://www.psaudio.com

If you are in the United States or Canada

If you are in the United States or Canada use the following procedure:

- 1. Obtain a Return Authorization Number (R/A number) and shipping address from the PS Audio Service Department.
- 2. Insure and accept all liability for loss or damage to the product during shipment to the PS Audio factory and ensure all freight (shipping) charges are prepaid.

The product may also be hand delivered to the California or Colorado facilities if arrangements with the Service Department have been made in advance. Proof of purchase from an authorized PS Audio dealer, distributor or agent will be required for warranty validation at the time of hand delivery.

Use original packing

Use the original packaging to ensure the safe transit of the product to the factory, dealer, or distributor. PS Audio may, at its discretion, return a product in new packaging and bill the owner for such packaging if the product received by PS Audio was boxed in nonstandard packaging or if the original packaging was so damaged to the point it was unusable. If PS Audio determines that new packaging is required, the owner will be notified before the product is returned.

To purchase additional packaging, please contact your authorized PS Audio dealer, distributor, or the PS Audio Service Department for assistance.

If you are outside the US or Canada

If you are outside the United States or Canada and require service you must contact your country's dealer or distributor for instructions. PS Audio warranties its products (see warranty section) worldwide. Service for PS Audio products outside the United States and Canada is handled through your country's distributor or dealer.



Service

Owner's Reference A-100 Power Amplifier

- 1. Obtain a Return Authorization Number (R/A number) and shipping address from your dealer or distributor's Service Department.
- 2. Insure and accept all liability for loss or damage to the product during shipment to the dealer or distributor's Service Department and ensure all freight (shipping) charges are prepaid.

If you have problems

If you feel your country's authorized dealer or distributor is either unwilling or unable to service your PS Audio products, please contact our service department at service@psaudio.com or at the above contact numbers to discuss the situation.

Voltage changes

Voltage changes to match your country's voltage and frequency requirements to your PS Audio xed voltage to

	product are possible only at the time of purchase. The GCA amplifier series is set to a fixed volta match your country's requirements and may not be changed.
Your serial number	Your PS Audio product serial number is:
	Please fill in the dealer or distributor's information from where you originally purchased the unit.
Your purchase information	
Date of purchase	