AudioSource®

A Phoenix Gold International Company

AMP 100 User Manual

2 Channel Amplifier
With Auto Switching Dual Inputs

General Features and Specifications

- Heavy Duty Black Aluminum Faceplate
- 160W Max Power Amplifier
- Power Consumption 500W
- 2 Pair Stereo Inputs
- 1 Pair Stereo Outputs
- Auto On (Signal Sensing)
- Auto Input Switching
- A, B, A+B Speaker Selector Switches
- 5-Way Speaker Binding Posts
- Unswitched 400W Power Outlet
- User Serviceable Fuse (T4A / 250V)
- Bridgeable Outputs
- Rubber Vibration-Damping Feet
- Net Weight: 9.6 lbs (21.1 kg)
- Dimensions: 2.9" H x 16.5" W x 9.25" D (74mm x 419mm x 235mm)

Congratulations on your purchase of the AudioSource AMP100 amplifier. We trust that you will enjoy the value and quality of your AudioSource AMP100 for many years. Please take a few moments to read this manual and retain it for your reference.

AMP100 Overview

The AudioSource AMP100 represents the very latest in affordable state of the art in amplifier design. Featuring dual inputs, its inputs are signal sensing, which means that the amp can be configured to turn on automatically when music is sensed on the input RCA's. Input one will override input two whenever signal is present. This makes the AMP100 the perfect amplifier as a zone amplifier for multiroom distribution systems. Any time a local source is activated, it will take priority over the whole house audio by simply showing signal present at input one of the AMP100. Also, use the AMP100 as amplification for your computer or video games. The AMP100 also has two pair of speaker outputs to allow the amp to run a main, or 'A' pair of speakers, as well as an auxiliary, or 'B' pair of speakers and allows selection of either, or both, from the front panel of the amplifier.

⚠ *Note: When using A & B speaker together it is imperative that the speaker systems all be a minimum 8-ohm impedance.*

Technical Specifications

8 ohm Input Sensitivity to Achieve 50W with THD+N less than 0.02%: 1.4V RMS
4 ohm Input Sensitivity to Achieve 75W with THD+N less than 0.02%: 1.2V RMS
Maximum 8 ohm stereo output power at 1% THD+N: 60W
Maximum 4 ohm stereo output power at 1% THD+N: 75W
Maximum 8 ohm Bridged-Mono output at 1% THD+N: 160W
(These specifications were measured with a 1kHz Sine Wave applied to both channels, and both channels driven)

Frequency Response: +1dB, -0.5dB

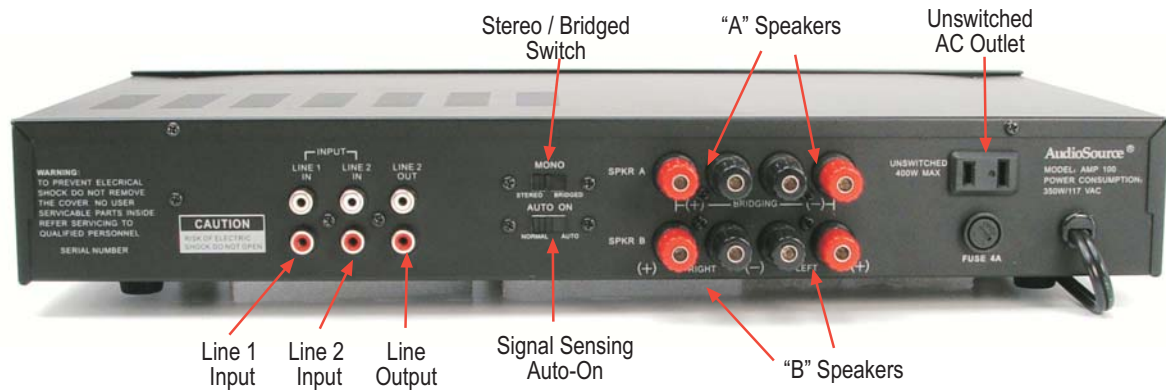|	
8 ohm, Stereo Power Bandwidth:	50W @ 8 ohms, <1% THD+N, 20-20kHz
4 ohm, Stereo Power Bandwidth:	60W @ 4 ohms, <1% THD+N, 20-20kHz

Figure1

Connections on the Rear Panel

Line Input 1 is used to connect a local source such as CD Player, Computer Sound Card, Television Audio Output or other line level source. Line Input 1 has "Priority" over Line Input 2 and will override Line Input 2 whenever signal is present at the inputs marked Line 1.

Line Input 2 is used to connect a signal such as a whole house audio signal as long as it is at line input levels, not speaker level. This can be any source the user wants to have as a primary source.

Line Output 2 is a pass through output of the signal at Line Input 2. Although Line 2 may be overridden by Line 1, its signal is always present at Line Output 2 to be passed on to another zone or location as a line level signal.

Bridging Switch (refer to wiring diagram Figure 2)
In addition to providing 60 watts RMS per channel in the stereo mode, your Amp100 can be used as a high power mono amplifier, providing over 160 watts RMS. This can be accomplished by sliding the mono switch from the stereo position to the bridged position. For mono applications, use only the right channel input.

⚠ **Note:** *Be sure to observe the correct speaker connections for bridged applications. Because of the high power output in this mode, we recommend initially setting the volume control at 'min', and then adjusting the volume to the desired level.*

Auto On Switch
The Amp100 can be configured to power on automatically, or to have manual control. If you would like the amp to come on automatically when the source begins sending signal, put the auto on switch in the "AUTO" position. When using the amplifier in the "Auto ON" mode the amplifier will automatically shut down after a period of time without signal present. If you would prefer to use the power button on the front of the amplifier, put the auto on switch in the "NORMAL" position.

⚠ **Note:** *If someone switches the amplifier off by using the power button on the front of the amplifier, the auto on feature will not work until the unit is manually switched on again by pressing the power button on the front of the amplifier.*

Speaker Terminals
More than one pair of speakers can be used with the Amp100. We have provided two pairs of speaker outputs, labeled SPKR A (left & right) and SPKR B (left & right). The speaker terminals are color coded. Red posts indicate positive (+) terminals and black posts indicate negative (-) terminals. Be sure to connect the positive output terminals of your Amp100 to the positive input terminals of your speakers and the negative output terminals of your Amp100 to the negative input terminals of your speakers.

⚠ **Note:** *Refer to the wiring diagrams on the next page for proper connection of speaker cables.*
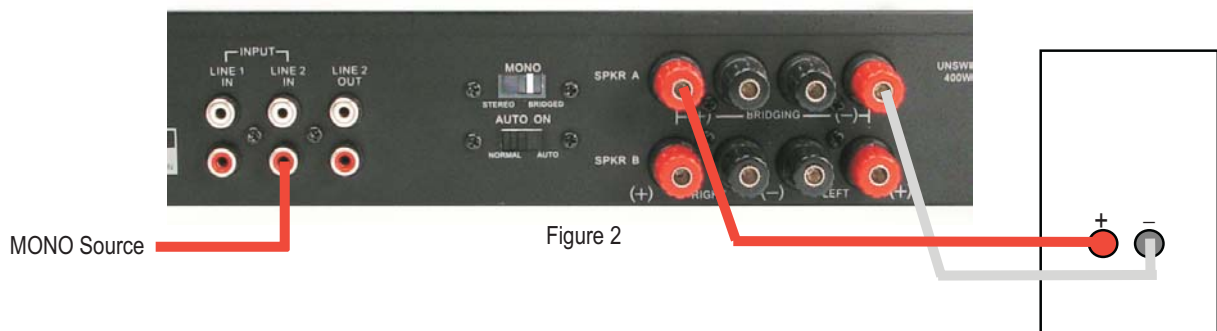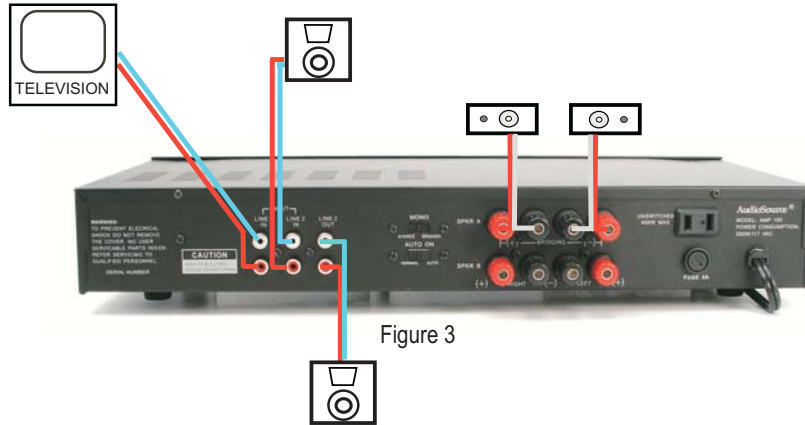

Figure 2

Stereo Setup

In this configuration, the mono switch is set to stereo for stereo operation. Connect the line out jacks from a stereo preamplifier or source to the line in jacks of your Amp100. Next connect your speakers to the terminals marked SPKR A (observing proper polarity: see above). Connect a second (optional) pair of speakers to the terminals marked SPKR B. Select between the A and/or B speakers using the front panel speaker selection buttons.

Mono Setup

In this configuration, the mono switch is set to bridged. Connect the line out from a preamplifier to the right line in of your Amp100. Connect your mono speaker to the terminals of your Amp100, following the example in the diagram in figure 2 (previous page). Use the volume control on the front panel to adjust the volume. Leave the balance set to the center detent or normal position.

Figure 3

Application Setup One

In the application shown above in figure 3, a distributed audio system is connected to the AMP100 as a local zone amplifier via the Line 2 inputs. Normally the distributed audio system will be the audio source for the AMP100.

The distributed audio is then passed on to be used by additional zones or sub zones in the distributed system via the Line 2 outputs.

The Audio output of a local television is connected to the AMP100 via the Line 1 inputs, and whenever the television is active its signal will take priority over the distributed audio signal present at Line 2. However, the distributed audio signal will still be present at Line 2 Out.   In this circumstance the audio output of the television will be heard via the AMP100. Once turned off, the AMP100 will automatically switch back the distributed audio system as an audio source, assuming the television is still active.

Figure 4

Application Setup Two

In the application shown above in figure 4, the audio output of a local television is connected to the AMP100 as a local source via the Line 2 inputs. Normally the television will be the audio source for the AMP100.

The audio output of a computer's sound card is connected to the AMP100 via the Line 1 inputs, and whenever the computer is active its signal will take priority over the television's audio signal present at Line 2. In this circumstance the audio output of the computer will be heard via the AMP100. Once turned off, the AMP100 will automatically switch to the television as an audio source, assuming the television is still active.

If any components of this system are missing or damaged
please call AudioSource directly at:

1.800.HELP.115

Safety Instructions

1) Warning
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
2) Caution
To reduce the risk of electric shock, do not remove cover (or back); no user serviceable parts inside. Refer servicing to qualified service personnel.
Caution
To prevent electric shock, match the wide blade of the AC plug to the wide slot of the AC outlet, and insert fully.
Attention
Pour eviter les chocs electriques, introduire la lame la plus large de la fichedans la borne correspondeante de la prise et pousser jusqu'au fond.
3) Read Instructions
All the safety and operating instructions should be read before the appliance is operated.
4) Retain Instructions
The safety and operating instructions should be adhered to.
5) Heed Warnings
All warnings on the appliance and in the operating instructions should be adhered to.
6) Follow Instructions
All operating and use instructions should be adhered to.
7) Do not defeat the safety purpose of the polarized or grounding-type plug.
A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
8) Only use attachments/accessories specified by the manufacturer.
9) Use of Cart
Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

10) Disconnect apparatus.
Unplug this apparatus during lightning storms or when unused for long periods of time.
11) Water and Moisture
The appliance should not be used near water. For example, near a bathtub, wash-bowl, Kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
12) Ventilation
The appliance should be situated so that its location or position does not interfere with its proper ventilation For example, the appliance should not be situated on a bed, sofa, rug or similar surface that may block the ventilation openings; or be placed in a built in situation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
13) Heat
The appliance should be situated away from heat sources such as radiators, heat registers, or other appliances (including amplifiers) that produce heat.
14) Power Sources
The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
15) Power Cord Protection
Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

16) Cleaning
The speaker should be cleaned only as recommended be the manufacturer.
17) Non-Use Periods
The power cords of the appliance should be unplugged from the outlet when left unused for a long period of time.
18) Object and Liquid Entry
Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19) Damage Requiring Service
The appliance should be service by qualified personnel when; a) the power cord or the plug has been damaged; b) objects have fallen, or liquid has been spilled into the appliance; c) the appliance has been exposed to rain; d) the appliance does not appear to operate normally or exhibits a marked change in performance; e) the appliance has been dropped, or the enclosure damaged.
20) Servicing
The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
21) Product Servicing
In the event your AudioSource product fails to operate properly, please contact the dealer where you purchased the unit, or you may contact AudioSource directly for further assistance.

LIMITED WARRANTY

Phoenix Gold International, Inc. (or "AudioSource") warrants this product against defects in materials and workmanship for a limited period of time. For a period of two years from date of original purchase, we will repair or replace the product, at our option, without charge for parts and labor. Customer must pay all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase. This limited warranty applies only to purchases from authorized AudioSource Electronics retailers. This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States.

Consumers are required to provide a copy of the original sales invoice from an authorized AudioSource dealer when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than Phoenix Gold, or damage that is attributable to Acts of God. It does not cover costs of transportation to Phoenix Gold or damage in transit.

This warranty will become void if the serial number identification has been wholly or partially removed, altered or erased. Repair or replacement under the terms of this warranty does not extend the terms of this warranty. Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. Under no circumstances shall Phoenix Gold be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.

Please Read the Safety Instructions Carefully!

AVIS	CAUTION
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	RISK OF ELECTRIC SHOCK DO NOT OPEN

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence on non-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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