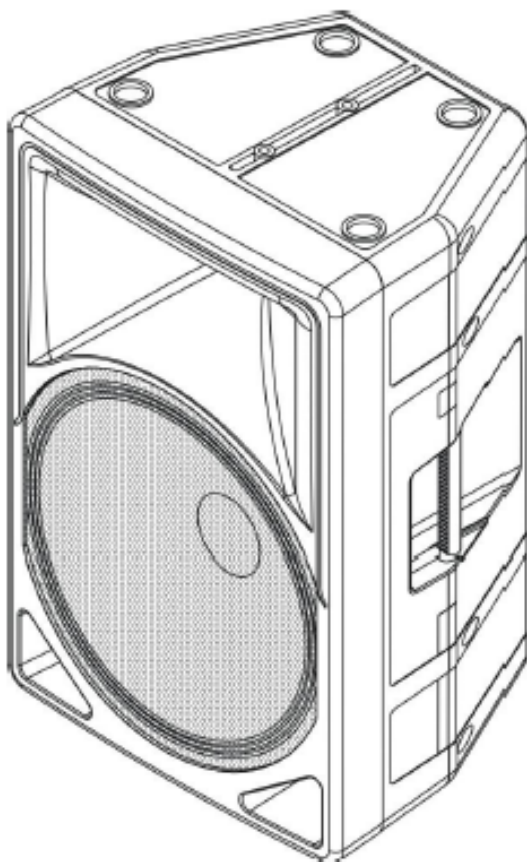




# 12" POWERED 2-WAY PA SPEAKER

## ASP5207P OWNER'S MANUAL



Thank you for purchasing the *Audio2000's*® ASP5207P 12" powered 2-way PA speaker! For the best results and the utmost satisfaction from your new unit, please read this manual thoroughly, and retain it for future reference.

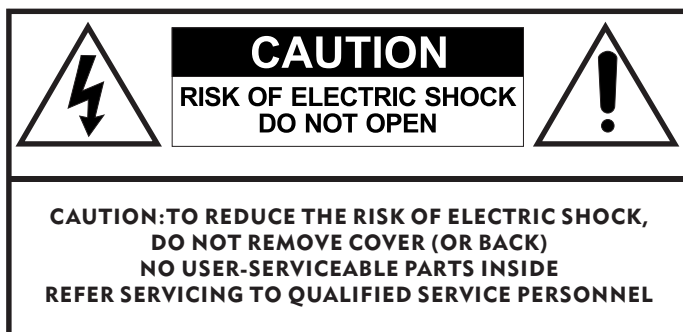
# TABLE OF CONTENTS

CAUTION.....	1
SAFETY INSTRUCTIONS.....	2
FEATURES.....	3
HANDLING PRECAUTIONS.....	3
BEFORE CONNECTIONS.....	3
DESCRIPTIONS AND FUNCTIONS.....	4
GENERAL OPERATIONS.....	6
SPECIFICATIONS.....	7
TROUBLESHOOTING.....	8
SERVICE INFORMATION.....	9

## IMPORTANT

For your protection, please read these instructions completely, and keep this manual for future reference. Carefully observe and comply with all warnings, cautions, and instructions placed on the equipment or described in the operations instructions to guard against injury.

## 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 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.

## WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE**

---

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE  
BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.**

**ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES  
INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS  
LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER  
JUSQU'AU FOND.**

---

# SAFETY INSTRUCTIONS

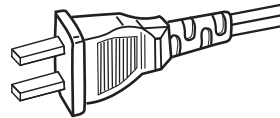
## READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 1) Read Instructions--All the safety and operating instructions should be read before the appliance is operated.
- 2) Retain Instructions--The safety and operating instructions should be retained for future reference.
- 3) Heed Warnings--All warnings on the appliance and in the operating instructions should be adhered to.
- 4) Follow Instructions--All operating and use instructions should be followed.
- 5) 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.
- 6) Carts and Stands--The appliance should be used only with a cart or stand that is recommended by the manufacturer.



- 7) An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 8) Wall or Ceiling Mounting--The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer
- 9) 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, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 10) Heat--The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 11) 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.
- 12) Grounding or Polarization--The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.



AC POLARIZED PLUG

- 13) Power-Cord Protection--Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 14) Cleaning--The appliance should be cleaned only as recommended by the manufacturer.
- 15) Power Lines--An outdoor antenna should be located away from power lines.
- 16) Nonuse Periods--The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 17) Object and liquid Entry--Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 18) Damage Requiring Service--The appliance should be serviced by qualified service personnel when;
  - A. The power-supply cord or the plug has been damaged;
  - B. Objects have fallen, or liquid has 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.
- 19) 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.

## FEATURES

1. One Balanced XLR Microphone Input
2. One Unbalanced 1/4" Microphone Input
3. One Balanced XLR Line Input
4. One Set Stereo RCA Audio Inputs (R & L)
5. One Balanced XLR Line Output
6. One Mono (TS) 1/4" Line Output
7. One Microphone Volume Control
8. One Line Input Level Control
9. One Line Output Level Control
10. One Treble and One Bass Controls
11. "POWER" and "CLIP" LED Indicators
12. AC 115V 60Hz / AC 230V 50Hz Compatible

## HANDLING PRECAUTIONS

### **Do not install the unit in following places:**

- In a place which is exposed to direct sunlight or near a source of heat such as a radiator.
- In a place where the heat cannot escape due to poor ventilation, or where it is very humid or dusty.
- In an unstable place with excessive vibrations or sloping.
- In a place which may be exposed to rain, such as near a window.
- In a place which may be exposed to soot, vapor or heat, such as near a cooking stove.

## BEFORE CONNECTIONS

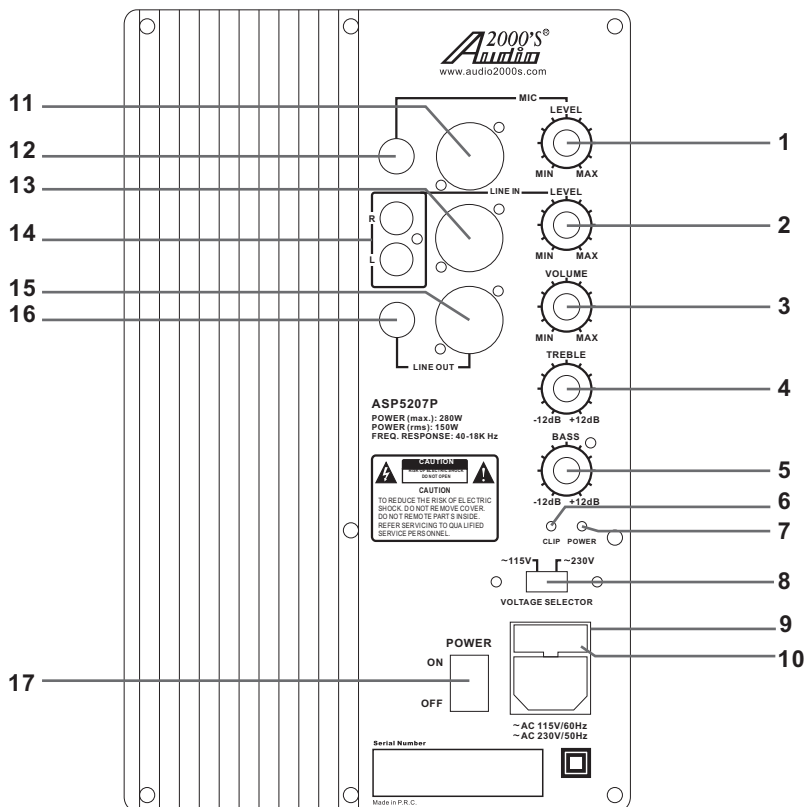
### **Connection precautions**

- Be sure to switch off the powers of the related equipment before making any connection.
- The "White" input/output jacks of the amplifier are designed for the Left channel, while the "Red" jacks are for the Right channel. Be sure to connect the cords without mistaking the correspondences of the Left and Right channels.
- Insert the plugs of the connection cords securely into the jacks. If the connection is incomplete, sound may not be produced or noise may be generated.
- When unplugging the power cord from the power outlet, be sure to grasp the plastic molding of the plug and pull.

### **Sound pressure precaution**

The ASP5207P is capable of producing extreme high sound pressures. Please keep in mind that high sound pressures not only can temporarily damage your sense of hearing, but also can cause permanent hearing damage. Be careful to select a suitable volume at all times.

# DESCRIPTIONS AND FUNCTIONS



1. **MIC LEVEL** - This control knob is used to adjust the microphone audio level. Turn this control knob clockwise to raise the microphone audio level. Turn this control knob counter-clockwise to lower the microphone audio level.
2. **LINE IN LEVEL** - This control knob is used to adjust the line input level. Turn this control knob clockwise to raise the line input level. Turn this control knob counter-clockwise to lower the line input. By adjusting the MIC LEVEL and the LINE IN LEVEL control knobs, any desired relative audio levels between the microphone input and the line input can be achieved.

## DESCRIPTIONS AND FUNCTIONS

3. LINE OUT VOLUME - This control knob is used to adjust the overall output volume. Turn this control knob clockwise to raise the speaker output sound pressure. Turn this control knob counter-clockwise to lower the speaker output sound pressure.
4. TREBLE - This control increases/decreases the amount of high frequency response applied to the line output.
5. BASS - This control increases/decreases the amount of low frequency response applied to the line output.
6. CLIP - This CLIP LED indicator is used to indicate that the speaker output power exceeds a preset limit( $150W \pm 10\%$ ).
7. POWER - This is the power-on LED indicator.
8. VOLTAGE SELECTOR - This selector toggles between 115V and 230V power settings. Please make sure this toggle is set to the correct position, matching the receiving AC outlet's power supply before plugging it in and operating it. Not doing so may cause severe damage to the unit and void your product warranty.
9. AC POWER INPUT
10. FUSE - Please turn off the AC power and unplug the AC power cord before replacing the fuse. (ONLY replace with the same type and rating of new fuse. The new fuse should have the rating of T250V/3.15A.)
11. XLR MICROPHONE INPUT JACK - This XLR microphone input jack does not supply phantom power.
12. BALANCED 1/4" (TRS) MICROPHONE INPUT JACK
13. XLR LINE INPUT JACK
14. RCA LINE INPUT JACKS
15. XLR LINE OUTPUT JACK
16. 1/4" MONO LINE OUTPUT JACK
17. POWER - This is the main power ON/OFF switch.

## GENERAL OPERATIONS

1. Connect up to two microphones to the microphone inputs.
2. If an external audio source is to be used with the ASP5207P, connect the output of the external audio source to the line input.
3. If the ASP5207P output signal is to be sent to an external sound system, connect the line output to the audio input of the external sound system.
4. Before turning on the ASP5207P power, turn down the Line Out Volume to minimum and make sure the Voltage Selector is set to the correct voltage setting position.
5. Turn on the power.
6. Adjust the microphone level, the line in level, the line out volume, the treble, and the bass controls to a desired setting.



# SPECIFICATIONS

System.....	Active 2-way full range
Magnet.....	50 Oz
Voice Coil.....	2.5"KSV
Output Power(max).....	280W
Output Power(rms).....	150W
Freq. Response.....	40-18K Hz( $\pm 3$ dB)
S/N Ratio.....	72dB
Nominal Output Noise.....	10mV
Line Input Sensitivity. . . . .	300mV
Microphone Input Sensitivity.....	8mV
Tone Control Characteristics Treble.....	+/-12dB
Bass.....	+/-12dB
CLIP LED Sensitivity.....	150W $\pm 10\%$
Speaker Output Sensitivity.....	96dB( $\pm 2$ dB)
Internal Speaker Input Impedance.....	4 $\Omega$
Dimension(W×D×H).....	16.5"×12.6"×23.4"
Supply Voltage.....	AC 115V/60Hz 230V/50Hz

## TROUBLESHOOTING

### MAINTENANCE

When the set gets dirty, wipe with a soft, dry cloth. If the set is extremely dirty, soak a soft cloth in a 5 to 6% solution of dishwashing detergent to water, wring it tightly, wipe the dirt away, and finally wipe the set with a dry cloth.

Never use alcohol, thinner, benzene, insecticide or other volatile agents, as they may damage the surface paint or gloss of the set.

Also do not wipe the set with a chemical cloth or leave it on the set for a long period, as the surface finish may be damaged or the paint may be stripped off.

### TROUBLESHOOTING

Should problems occur, they are, in many cases, due to simple operation mistakes or the like. On the basis of the following checks, you will be able to rectify a number of problems yourself without difficulty.

If the problem cannot be remedied after the following checks, please consult your dealer.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
No Power	Power is off.	Turn on the power.
	AC power cord is unplugged.	Plug the AC power cord to an AC power outlet (120V).
	The fuse next to the AC input is open	Replace the fuse.
No Music Sound	No signal from the audio source.	Check the audio source.
	The line-in level knob and/or the line-out volume knob were turned to the minimum levels.	Turn both the line-in level knob and the line-out volume knob to appropriate levels.
	Bad cable or poor contact.	Make sure that all cables are not damaged and all contact points are proper.
No Microphone Sound	Bad microphone or microphone cable.	Check the microphone and cable.
	The microphone cable is not plugged into the microphone input jack securely.	Make sure that the microphone cable is plugged into the microphone input jack properly.
	The switch on the microphone was set to "OFF".	Set the switch on the microphone to "ON".
	The mic level control knob was turned to the minimum level.	Turn the mic level control knob to an appropriate level.
Distorted Sound	Distorted sound signal from an audio source.	Check the audio source.
	Input overloaded by the input signal.	Adjust the audio source output level lower.
	Speaker output overloaded.	Turn the line out volume control knob lower.

## SERVICE INFORMATION

### SHIPPING DAMAGE

If the shipping carton is found to be damaged, notify the delivery company immediately. Save the damaged carton as evidence for the delivery company to inspect. It is the responsibility of the shipper to file a claim with the delivery company for any damage that occurs during shipping. In the case that the shipping carton is in good condition but the unit is damaged or defective, call **Audio2000'S®** at 805-523-2759.

### FACTORY SERVICE

If the equipment needs factory service, call **Audio2000'S®** at 805-523-2759 for a Return Authorization number (RA number) and the address of the authorized service representatives. Insure and ship the product, prepaid, in its original carton along with proof of purchase in the form of a bill of sale or receipted invoice to the above address. Please clearly write the RA number on the shipping carton. Also enclose a note describing the problem along with any other helpful information such as where and how the unit was used.

### LIMITED WARRANTY

H&F Technologies, Incorporated (H&F) hereby warrants that **Audio2000'S®** products will be free from defects in material and workmanship for a period of 1 (one) year from date of purchase. At its option, H&F will repair or replace the defective product and promptly return it to you.

The Limited Warranty will not cover any item that has been, in H&F's estimation, subject to alteration, misuse, neglect, accident or improper installation. In addition, any service not performed by H&F or an authorized service center will terminate terms of this warranty. Normal wear and tear of this product will not be covered by this or any implied warranty.

No liability will be accepted for damages/loss directly caused from the use of this product. H&F's liability shall be limited to the repair/replacement of this product if found to be defective.

© 2010 H & F Technologies, Incorporated (website: [www.audio2000s.com](http://www.audio2000s.com))