

## Atlas Sound PA40G

# Atlas Sound PA40G 40W 70V Amplifier Instruction Manual

Model: PA40G

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Atlas Sound PA40G 40W 70V Amplifier. Please read these instructions thoroughly before using the product to ensure optimal performance and safety.

The PA40G is a compact 40-watt power amplifier designed for 70V/100V constant voltage systems. It features both balanced and unbalanced line inputs, a global power supply, and status LEDs for easy monitoring.

## 2. SAFETY INSTRUCTIONS

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- **Read Instructions:** Read all safety and operating instructions before using the appliance.
- **Retain Instructions:** Keep these instructions for future reference.
- **Heed Warnings:** Adhere to all warnings on the appliance and in the operating instructions.
- **Follow Instructions:** Follow all operating and use instructions.
- **Water and Moisture:** Do not use this apparatus near water.
- **Cleaning:** Clean only with a dry cloth.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Power Cord Protection:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Attachments/Accessories:** Use only attachments/accessories specified by the manufacturer.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Atlas Sound PA40G Amplifier
- Power Cord
- Phoenix Connectors (for balanced input and speaker output)
- Instruction Manual (this document)

### 4. KEY FEATURES

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- 40 Watts output at 70V/100V
- One balanced line input (Phoenix connector)
- One unbalanced summing line level input (RCA connectors)
- Global power supply (100VAC-240VAC, 50/60 Hz)
- Frequency response: 50 Hz to 20 kHz
- Status LEDs: Power, Limit, Signal
- Removable level controls with security covers
- Compact 1RU 1/2 rack design

### 5. SETUP AND CONNECTIONS

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#### 5.1 Front Panel Overview



*Image 1: Front panel of the Atlas Sound PA40G amplifier, showing the Power, Limit, and Signal LEDs, and the Gain control knob.*

- **Power LED:** Illuminates when the unit is powered on.
- **Limit LED:** Illuminates when the amplifier is approaching clipping. Reduce input gain if this LED is frequently active.
- **Signal LED:** Illuminates when an audio signal is present.
- **Gain Control:** Adjusts the overall output level of the amplifier.

#### 5.2 Rear Panel Overview and Connections



Image 2: Rear panel of the Atlas Sound PA40G amplifier, displaying Balanced Input, Left In/Right In (Summed Inputs), Speaker Out, and the AC power inlet.

- **Balanced Input:** Connect a balanced line-level audio source using the provided Phoenix connector. This input is typically used for professional audio equipment.
- **Left In / Right In (Summed Inputs):** Connect an unbalanced stereo line-level audio source (e.g., from a media player or mixer) using RCA cables. These inputs are summed to mono internally.
- **Speaker Out:** Connect your 70V or 100V constant voltage speaker system using the provided Phoenix connector. Ensure correct polarity and secure connections.
- **AC Power Inlet:** Connect the supplied power cord to this inlet and then to a suitable AC power outlet (100VAC-240VAC, 50/60 Hz).
- **Ground Terminal:** Provides an optional connection point for system grounding if required.

## 5.3 Installation Steps

1. **Mounting:** The PA40G is designed for surface mounting or can be placed on a shelf. Ensure adequate ventilation around the unit.
2. **Connect Inputs:** Connect your audio source(s) to either the Balanced Input or the Summed Inputs (Left In/Right In) on the rear panel.
3. **Connect Speakers:** Connect your 70V or 100V speaker system to the Speaker Out terminal. Verify that the total wattage of your speakers does not exceed the amplifier's 40W output.
4. **Connect Power:** Ensure the amplifier's gain control is set to minimum. Connect the power cord to the AC Power Inlet and then to a grounded electrical outlet.

## 6. OPERATING INSTRUCTIONS

1. **Power On:** Once all connections are secure, turn on the power to the amplifier. The Power LED on the front panel will illuminate.
2. **Adjust Gain:** Slowly increase the Gain control knob on the front panel to achieve the desired output volume. Monitor the Signal and Limit LEDs.
3. **Monitor LEDs:**
  - The *Signal* LED indicates the presence of an audio signal.
  - The *Limit* LED indicates that the amplifier is operating near its maximum output. If this LED

flashes frequently or stays lit, reduce the input signal level or the amplifier's gain to prevent distortion and potential damage.

4. **Power Off:** To turn off the amplifier, simply disconnect the power cord from the AC outlet.

## 7. MAINTENANCE

- **Cleaning:** Clean the exterior of the amplifier with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and obstructions to prevent overheating.
- **Inspections:** Periodically check all cable connections for security and signs of wear.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power (Power LED off)	Power cord not connected; no power from outlet.	Check power cord connection; test outlet with another device.
No sound output	Input cables disconnected; speaker cables disconnected; gain too low; source device off.	Verify all input and output connections; increase gain; ensure audio source is playing.
Distorted sound (Limit LED flashing)	Input signal too high; amplifier overloaded.	Reduce input signal level from source; decrease amplifier gain.
Low volume	Gain set too low; low input signal.	Increase amplifier gain; check output level of audio source.

## 9. SPECIFICATIONS

Output Power	40 Watts (70V/100V)
Inputs	1 x Balanced Line (Phoenix), 1 x Unbalanced Summing Line Level (RCA L/R)
Frequency Response	50 Hz to 20 kHz
Power Supply	100VAC-240VAC, 50/60 Hz
Dimensions (L x W x H)	11.8 x 11.3 x 10.5 inches (Product)
Item Weight	2.9 pounds
Model Number	PA40G
Manufacturer	Atlas Sound

## 10. WARRANTY INFORMATION

Atlas Sound products are designed and manufactured to the highest standards. For specific warranty terms and conditions, please refer to the official Atlas Sound website or contact their customer support. Keep your proof of purchase for warranty claims.

## 11. CUSTOMER SUPPORT

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If you encounter any issues or have questions not covered in this manual, please contact Atlas Sound customer support for assistance. You can find contact information on the official Atlas Sound website:

[www.atlassound.com](http://www.atlassound.com).

**Atlas Sound Contact Information:**

- **Address:** 1601 Jack McKay Blvd. Ennis, TX 75119
- **Phone:** 800.876.3333
- **Website:** [AtlasSound.com](http://AtlasSound.com)