

## Sound Town STPAS-600D

# Sound Town STPAS-600D Class-D Plate Amplifier Instruction Manual

For PA DJ Subwoofer Cabinets, 350W RMS, with Low Pass Filter

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Sound Town STPAS-600D Class-D Plate Amplifier. This amplifier is designed for integration into PA DJ subwoofer cabinets, delivering 350W RMS power with a built-in Low Pass Filter (LPF).

## 2. IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions thoroughly before operation.
- Keep these instructions for future reference.
- Heed all warnings on the product and in this manual.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a 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-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 the 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.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

### 3. PRODUCT FEATURES

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The Sound Town STPAS-600D Class-D Plate Amplifier offers the following key features:

- 350W RMS Class-D power amplifier plate.
- Equipped with 2 XLR-1/4" combo and 2 RCA inputs.
- Features 2 XLR (through) outputs for signal routing.
- Integrated Low Pass Filter (LPF) adjustment for precise frequency control.
- Includes master volume control and a polarity switch.
- Built-in over current and short circuit protection for enhanced reliability.
- Sturdy and reliable construction.

### 4. SETUP AND INSTALLATION

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This plate amplifier is designed for integration into a subwoofer cabinet. Ensure the cabinet has appropriate dimensions and mounting points for the amplifier plate.

#### 4.1 Physical Installation

Carefully mount the STPAS-600D amplifier plate into the designated opening on your subwoofer cabinet. Secure it using appropriate screws (not included, typically provided with the subwoofer cabinet or purchased separately).



Image: Rear view of the STPAS-600D plate amplifier showing its dimensions (8.31" Width, 12.13" Height, 2.95" Depth) and control panel layout.

## 4.2 Internal Wiring

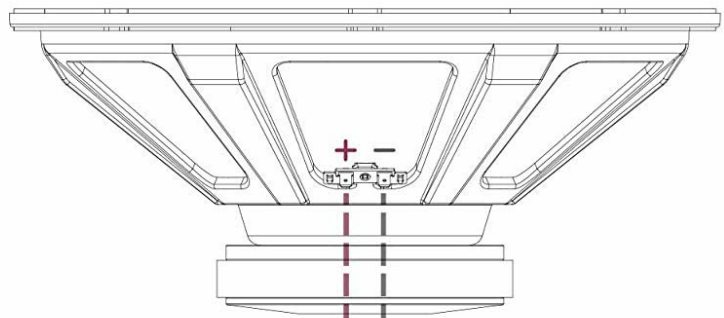
Connect the internal wiring from the amplifier to the subwoofer driver. Observe correct polarity.

- Connect the **red wire** from the amplifier to the subwoofer's LF+ (positive) terminal.
- Connect the **black wire** from the amplifier to the subwoofer's LF- (negative) terminal.

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## Plate Amplifier Wiring Instruction

### LF (LOW FREQUENCY) WOOFER



Connect the red wire  
to woofer LF + (positive).

Connect the black wire  
to woofer LF - (negative).



Image: Diagram illustrating the internal wiring connection from the plate amplifier to the low frequency (LF) woofer. The red wire connects to LF+ (positive) and the black wire connects to LF- (negative).

### 4.3 External Connections

Connect your audio source and other equipment to the amplifier's input and output ports.

- **Inputs:** Use the 2 XLR-1/4" combo jacks or 2 RCA inputs to connect your audio source (e.g., mixer, audio interface).
- **Outputs:** Use the 2 XLR (through) outputs to pass the audio signal to other amplifiers or active speakers.
- **Power:** Connect the power cable to a suitable electrical outlet (110V-220V switchable). Ensure the voltage switch is set correctly for your region before powering on.

## 5. OPERATING INSTRUCTIONS

Once installed and connected, operate the amplifier using the controls on the plate.

### 5.1 Power On/Off

Locate the power switch on the amplifier plate. Flip the switch to the "ON" position to power on the unit. The front LED will illuminate when the amplifier is active.

### 5.2 Volume Control

Adjust the master volume knob to control the overall output level of the subwoofer. Start with a low volume setting and gradually increase it to a comfortable listening level.

### 5.3 Low Pass Filter (LPF) Adjustment

The LPF knob allows you to set the upper frequency limit for the subwoofer, typically ranging from 40Hz to 150Hz. Adjust this control to blend the subwoofer's output seamlessly with your main speakers. A lower LPF setting means the subwoofer will only reproduce very low frequencies, while a higher setting allows it to play into the mid-bass range.

### 5.4 Polarity Switch

The polarity switch (0°/180°) helps to optimize the phase alignment between the subwoofer and your main speakers. Experiment with both settings to find the one that produces the most impactful and coherent bass response in your listening environment. This is often determined by the physical placement of the subwoofer relative to the main speakers.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your amplifier.

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the exterior surfaces. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure that the ventilation openings are not obstructed to prevent overheating.
- **Storage:** If storing the amplifier for an extended period, ensure it is in a cool, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

If you encounter issues with your STPAS-600D amplifier, refer to the following common troubleshooting steps:

| Problem                          | Possible Cause                                                                                                                       | Solution                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No power / Unit does not turn on | Power cable not connected.<br>Power outlet not active.<br>Voltage switch incorrect.                                                  | Ensure power cable is securely plugged into the amplifier and a working outlet.<br>Check the power outlet with another device.<br>Verify the 110V/220V switch is set correctly for your region.                             |
| No sound output                  | Input cables not connected or faulty.<br>Volume knob set too low.<br>Subwoofer wiring incorrect.<br>Source device not playing audio. | Check all input cable connections and try different cables.<br>Increase the master volume knob.<br>Verify internal subwoofer wiring (red to LF+, black to LF-).<br>Ensure your audio source is active and sending a signal. |

| Problem         | Possible Cause                                                                            | Solution                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Distorted sound | Input signal too high.<br>Volume set too high.<br>LPF setting too high for the subwoofer. | Reduce the output level from your audio source.<br>Lower the master volume on the amplifier.<br>Adjust the LPF to a lower frequency. |
| Overheating     | Insufficient ventilation.<br>Prolonged high-volume operation.                             | Ensure adequate airflow around the amplifier plate.<br>Reduce volume and allow the unit to cool down.                                |

## 8. SPECIFICATIONS

| Feature           | Detail                                 |
|-------------------|----------------------------------------|
| Model             | STPAS-600D                             |
| Type              | Class-D                                |
| Power Output      | 350W RMS                               |
| Impedance Support | 4 Ω & 8 Ω                              |
| Inputs            | 2 x XLR-1/4" combo (mic/line), 2 x RCA |
| Outputs           | 2 x XLR (thru)                         |
| Controls          | Volume, Polarity, Front LED, LPF       |
| LPF Range         | 40-150 Hz                              |
| Protection        | Overload and overcurrent protection    |
| Voltage           | 110V-220V switchable                   |
| Product Width     | 8.31"                                  |
| Product Height    | 12.13"                                 |
| Product Depth     | 2.95"                                  |
| Product Weight    | 3.97 lbs                               |
| Material Type     | Metals and plastics                    |

## 9. WARRANTY AND SUPPORT

### 9.1 Manufacturer's Warranty

The Sound Town STPAS-600D Plate Amplifier comes with a**1-Year Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### 9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Sound Town customer support. Refer to the official Sound Town website or your purchase documentation for contact details.

You can visit the [Sound Town Store on Amazon](#) for more information and support resources.

**ASK A QUESTION ABOUT THIS MANUAL**

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question