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Bugera PS1

Bugera PS1 Passive 100-watt Power Attenuator and Hosa 1/4" TS Speaker Cable User Manual

Model: PS1

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Bugera PS1 Passive 100-watt Power Attenuator and the included Hosa 1/4" TS Speaker Cable. The Bugera PS1 allows you to achieve the full tonal characteristics of a cranked tube amplifier at reduced volume levels, suitable for various environments including recording studios, live performances, and home practice. The Hosa speaker cable ensures a reliable connection between your amplifier and the attenuator or speaker cabinet.

Please read this manual thoroughly before operating the device to ensure proper setup and to prevent damage.

2. KEY FEATURES

- **Passive Power Attenuation:** Reduces amplifier output volume without altering the amplifier's tone.
- **100-watt Capacity:** Designed for tube amplifiers up to 100 watts.
- **Impedance Matching:** Compatible with 4, 8, or 16 ohm amplifier outputs.
- **Emulated Mic Output (XLR):** Provides a speaker cabinet-emulated signal for direct connection to mixing consoles or audio interfaces.
- **Line Output (1/4" TS):** Offers a direct signal of the amplifier's power section for use with impulse responses (IRs) or external effects.
- **Included Hosa Speaker Cable:** A durable 3-foot 1/4" TS speaker cable for reliable audio transmission.

3. SETUP AND CONNECTIONS

Proper connection is crucial for the safe operation of your amplifier and the PS1 attenuator. Always ensure your amplifier is turned off before making any connections.

3.1 Connecting the Attenuator

1. **Power Off:** Turn off your tube amplifier and disconnect it from the power source.
2. **Amplifier Output to PS1 Input:** Connect the speaker output of your tube amplifier to the "AMP INPUT" jack on the Bugera PS1 using a high-quality speaker cable (the included Hosa cable is suitable). Ensure the impedance setting on your amplifier matches the impedance selected on the PS1 (4, 8, or 16 ohms).
3. **PS1 Output to Speaker Cabinet:** Connect the "SPEAKER OUTPUT" jack on the Bugera PS1 to your speaker cabinet's input using another high-quality speaker cable.
4. **Optional: Emulated Mic Output:** For direct recording or live sound, connect an XLR cable from the "EMULATED MIC OUT" on the PS1 to your mixing console or audio interface.
5. **Optional: Line Output:** For impulse response loading or external processing, connect a 1/4" TS cable from the "LINE OUT" on the PS1 to your audio interface or effects unit.
6. **Power On:** Once all connections are secure, you may power on your amplifier.



Figure 1: Bugera PS1 Power Attenuator and Hosa Speaker Cable. This image shows the front panel of the Bugera PS1 with its "SOAK" and "LINE" controls, alongside the included Hosa 1/4" TS speaker cable.



Figure 2: Angled view of the Bugera PS1 Power Attenuator. This perspective highlights the robust construction and ventilation grilles on the side of the unit.



Figure 3: Close-up of the Hosa 1/4" TS Speaker Cable. This image details the durable metal connectors of the included speaker cable.

4. OPERATION

The Bugera PS1 features two primary controls: SOAK and LINE.

4.1 SOAK Control

The **SOAK** control knob adjusts the amount of attenuation applied to the signal sent to your physical speaker cabinet. Turning the knob clockwise reduces the volume, allowing you to push your amplifier's output section harder for desired tonal characteristics at lower listening levels. The scale indicates the percentage of power being attenuated, from 0% (full volume to speaker) to 100% (maximum attenuation).

4.2 LINE Control

The **LINE** control knob adjusts the output level of the "EMULATED MIC OUT" (XLR) and "LINE OUT" (1/4" TS) jacks. This allows you to fine-tune the signal level sent to your mixing console, audio interface, or external effects, independent of the SOAK control. Adjust this to achieve an optimal input level for your recording or sound reinforcement equipment.

4.3 General Usage Tips

- Start with your amplifier's volume at a low setting and gradually increase it to your desired "cranked" tone.
- Adjust the SOAK control to achieve a comfortable listening volume from your speaker cabinet.
- If using the direct outputs, adjust the LINE control to prevent clipping or ensure a strong signal to your connected device.
- Always use proper speaker cables for all connections between the amplifier, attenuator, and speaker cabinet. Instrument cables are not suitable for this purpose and can cause damage.

5. MAINTENANCE

The Bugera PS1 Power Attenuator is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners, solvents, or waxes.
- **Ventilation:** Ensure the ventilation grilles on the unit are not obstructed to allow for proper heat dissipation.
- **Storage:** Store the unit in a dry environment, away from extreme temperatures and humidity.
- **Cable Care:** Inspect the Hosa speaker cable periodically for any signs of wear or damage. Replace if necessary to ensure optimal performance and safety.

6. TROUBLESHOOTING

If you encounter issues with your Bugera PS1, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speaker cabinet.	<ul style="list-style-type: none"> ◦ Incorrect cabling. ◦ Amplifier not powered on or in standby. ◦ SOAK control set to maximum attenuation (100%). ◦ Faulty speaker cable. 	<ul style="list-style-type: none"> ◦ Verify all speaker cables are securely connected to the correct jacks. ◦ Ensure amplifier is powered on and out of standby. ◦ Adjust SOAK control to a lower attenuation setting. ◦ Test with a known working speaker cable.
No signal from Emulated Mic Out or Line Out.	<ul style="list-style-type: none"> ◦ LINE control set to minimum. ◦ Incorrect cable type (e.g., instrument cable for XLR). ◦ Receiving device (mixer/interface) input level too low or muted. 	<ul style="list-style-type: none"> ◦ Increase the LINE control level. ◦ Ensure correct XLR or 1/4" TS cables are used. ◦ Check input levels and mute status on your mixer or audio interface.
Distorted or poor sound quality.	<ul style="list-style-type: none"> ◦ Impedance mismatch. ◦ Overdriving the input of the receiving device (for direct outputs). ◦ Faulty cables. 	<ul style="list-style-type: none"> ◦ Verify amplifier output impedance matches PS1 setting. ◦ Reduce the LINE control level. ◦ Test with different cables.

7. SPECIFICATIONS

- **Model:** Bugera PS1
- **Type:** Passive Power Attenuator
- **Maximum Power Handling:** 100 Watts
- **Impedance Compatibility:** 4, 8, 16 Ohms
- **Inputs:** 1 x 1/4" TS (Amp Input)
- **Outputs:**
 - 1 x 1/4" TS (Speaker Output)
 - 1 x XLR (Emulated Mic Output)
 - 1 x 1/4" TS (Line Output)
- **Controls:** SOAK (Attenuation), LINE (Direct Output Level)

- **Included Cable:** Hosa 1/4" TS Speaker Cable, 3-foot length

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Bugera PS1 Power Attenuator, please refer to the official Bugera website or contact their customer service department. For support related to the Hosa speaker cable, please refer to the Hosa Technology website.

Always retain your proof of purchase for warranty claims.

Online Resources:

- Bugera Official Website: www.bugera.com
- Hosa Technology Official Website: www.hosatech.com