



# PRELIMINARY P12 User Guide

“Thank you for purchasing a Procella Audio Active Loudspeaker!”

*We recommend that Procella loudspeakers be installed and tuned by a trained Procella technician. Please consult with your dealer or Procella Audio for assistance with determining the proper speaker setting and positions in your room.*

## IMPORTANT SAFETY INSTRUCTIONS



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER- SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS TO COMPLETELY DISCONNECT THIS APPARATUS FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.

<b>Package contents:</b> - Procella P12 active subwoofer -Power cord - This User Guide
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- Confirm that the Voltage setting is correct for your country and that the included power cord is suitable.
- Make sure that the ventilation openings on top of the amplifier module are free and that the position of the P12 enclosure allows air to circulate around the amplifier module.
- A single Procella P12 subwoofer should be positioned on the floor, against the front wall between the Center and either the Left or Right screen speaker if no other instructions have been provided. We do not typically recommend locating a single subwoofer on the centerline of the room. For placement of multiple subwoofers, contact your Procella dealer or the Procella factory.
- The Procella P12 amplifier is a High-Power, Switched-mode Class-D amplifier. Like any digital amplifier, proper mains, grounding and signal interconnections are essential for correct operation, to avoid hum and buzz and to achieve the best possible signal to noise ratio.
  - The power line should be free from disturbances caused by other electrical appliances such as motors, heaters and ovens, elevators, refrigerators or similar.
  - To minimize ground-loops, connect the Procella P12 to the same power outlet as the pre-amplifier or processor and run the signal cable in parallel with mains cable.
  - For the best possible performance, it is strongly recommended that the P12 amplifier be connected with a professional XLR-type, shielded 2-wire cable to a balanced output of the pre-amplifier. Pin1=Ground, Pin2=Normal polarity (“hot”) and Pin3=Inverted polarity (“cold”).

- Although the Procella P12 has a unbalanced Phono input, when it is used with a preamp or processor that has an unbalanced output, we recommend that a shielded 2-wire cable with XLR connectors be used, with an adapter at the pre-amplifier end. This will produce the lowest noise level and best sound quality.
- The unbalanced Phono output connector of the Procella P12 should only be used for linking to additional Procella P12 subwoofers.

- The "Signal" LED is green when an input signal is detected. When the LED switches to Red, the input signal is too high and the amplifier is clipping.

**CAUTION: Do not run the P12 subwoofer at clip level for extended periods!**

- The "Gain" control should be used to set the level. When setting subwoofer levels through a preamp or processor, the Gain control should be adjusted so that the SUB output from the processor matches the LCR loudspeakers output.

- The "Polarity" switch can be used to match the polarity of the Procella P12 to the L-C-R speakers at the listening position. This is important because of variables in the system such as the pre-amplifier, crossover order and room position of both the main speakers and the subwoofer.

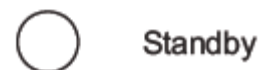
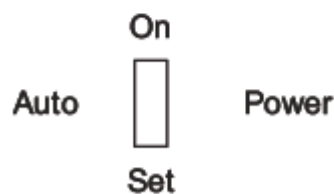
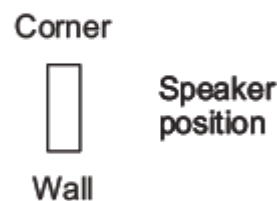
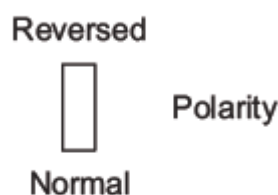
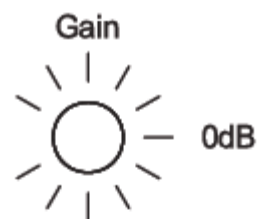
- The Procella P12 amplifier has two user-selectable presets for room positioning of the subwoofer:

WALL                    Positioned on the floor and against a wall.  
 CORNER                Positioned on the floor, against a wall and close to a corner.

- Without test equipment, the correct position can be determined by a listener seated at the main listening position. With a partner at the subwoofer, play music with prominent mid-bass content through the system. While listening to the playback, the listener should instruct the partner when to change the Polarity switch, carefully listening for changes in the mid-bass level. The switch setting that produces the greatest bass output is the correct setting.

- To calibrate the Auto Power On circuit, connect the subwoofer cable to the Pre-amp or processor. Set the power switch on the Pre-amp or processor to ON (or out of Standby), with no source playing. On the subwoofer, move the switch to Set. The Standby LED will start blinking rapidly. When the LED blinking rate slows down, move the switch to Auto.

- You can confirm that you have the correct setting by playing any disc and verifying that the Standby LED switches to Green when the material starts playing. If the LED turns green without any source playing, check your installation and cable routing for AC mains or signal interference.



The Procella P12 is designed for use with a 4th order Linkwitz-Riley, low pass crossover at 80-125Hz. The proper frequency depends on the main speakers used and the desired playback levels. If available, the 'THX'™ setting in the processor will give the correct characteristics at a frequency of 80Hz.

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