

PyP-Bomb™ Amplifiers

Model PB-1

INTRODUCTION

PyP-Bomb amplifiers are designed, assembled, and tested, by hand, in the United States. Great care has been taken in the assembly and testing process in order to ensure you get the highest quality PyP-Bomb.

PyP-Bomb amplifiers are designed to operate on an internal 12V sealed lead-acid battery that should be maintained fully charged for best operation. The supplied adapter is used to charge the PyP-Bomb up when the power gets low and also offers backup power when you have access to an electrical outlet. The internal charging circuit also allows you to leave the charger plugged into the PyP-Bomb indefinitely without over charging the internal battery. When the battery has reached full capacity, the smart circuitry automatically switches to trickle charge in order to maintain optimal power conditions.

The PyP-Bomb can be used with any electronic instrument or microphone with the proper adapter. A standard dynamic microphone with XLR output can be used when combined with an impedance matching transformer adapter (For more information please visit the "Applications" section at <http://pyp-bomb.com>). For stereo reproduction, two PyP-Bombs may be used combined with a stereo to mono signal splitting adapter (For more information please visit the "Applications" section at <http://pyp-bomb.com>). With this configuration your PyP-Bomb can be used to amplify any portable CD/MP3 player in full stereo reproduction.

PLAYING

In order to turn your new PyP-Bomb on, a standard 1/4 inch phono plug should be plugged into the input jack located in the center of the top lid. Once you have plugged your instrument into the jack marked "INPUT", the VOLUME knob will allow you to switch the PyP-Bomb on and off. Before switching the power on via the VOLUME knob, make sure the correct position on the ELECTRIC/ACOUSTIC switch is selected for the type of instrument you will be playing. Also place the TONE knob in the center position in order to achieve a flat frequency response from the PyP-Bomb. If the input jack is unplugged at any time during use, the PyP-Bomb will automatically shut off. We have included the extra ON/OFF control on the VOLUME knob in order to allow you to keep your instrument plugged into the PyP-Bomb when not in use.

Once the PyP-Bomb is on you can cater your sound using the TONE knob. If you would like to experiment further with the output of your PyP-Bomb you can switch the ELECTRIC/ACOUSTIC switch to the alternate position. This change will dramatically affect the output. In order to protect the PyP-Bomb speaker from any drastic sound bursts, we recommend you turn the volume down before changing the position of ELECTRIC/ACOUSTIC switch.

Turn the VOLUME clockwise to increase loudness, and counter-clockwise to decrease and turn off the PyP-Bomb. The TONE knob will offer a bass rich sound when turned counter-clockwise, and a brighter sound when turned clockwise. You may need to experiment with various VOLUME and TONE combinations in order to achieve the desired output.

OUTPUT

The OUTPUT jack is designed for use with a standard set of stereo headphones which have a 1/4 inch jack. Plugging a set of headphones into the PyP-Bomb will automatically disengage the speaker output and allow you to enjoy the same high quality PyP-Bomb sound via your choice of headset. This OUTPUT jack may also be used as a low level signal to another device.

All controls (VOLUME, TONE, and ELECTRIC/ACOUSTIC) are fully functional when using the OUTPUT jack as your source.

CHARGING

When you begin to notice a drop in output, or the clean sound level begins to distort, you need to recharge your PyP-Bomb. If the battery gets very low the PyP-Bomb speaker will begin to oscillate, and the sound will sound clipped when the VOLUME is turned up (even when used through headphones). In any of these cases all that is required is to plug the supplied AC adapter into a wall outlet (110V AC) and plug the 2.5 mm jack on the other end of the adapter into the rear of your PyP-Bomb. Your PyP-Bomb will recharge in a minimum of 2-4 hours (depending on how drained the battery is). Once charged, your PyP-Bomb can be left plugged into the AC adapter without overcharging. The smart circuitry built into the PyP-Bomb senses the voltage of the internal battery and automatically switched to trickle charging in order to keep the battery in optimal condition. It is recommended that you keep the PyP-Bomb plugged in when not in use.

AC POWER

The supplied AC adapter can also be used to supply backup power to your PyP-Bomb when it begins to run low. When in use and plugged into the AC adapter, the PyP-Bomb battery will also be charging, but at a much slower rate. If the battery has been drained too low and oscillation occurs, the PyP-Bomb should be charged for several hours before continuing use. In this case, the backup power supplied by the AC adapter may not be sufficient to run your PyP-Bomb until the charging circuit has increased the voltage of the internal battery.

PyP-BOMB CARE

Your new PyP-Bomb is built to endure constant everyday use. In order to maintain your PyP-Bomb in optimal conditions you should always keep it clean and away from moisture that may affect the internal circuitry and the speaker cone. If the strap pins become loose, they may be tightened using a standard philips head screwdriver. Keep the INPUT and OUTPUT jacks clean of dirt and dust. But MOST IMPORTANTLY, **KEEP THE BATTERY CHARGED.** The internal batteries will last up to approximately four to six months when stored fully charged, but should always be maintained using the supplied AC adapter. If the battery is completely drained it will become progressively harder to achieve full charge capacity, and eventually will need replacement. For this reason we recommend you keep your PyP-Bomb plugged in when not in use. The internal circuitry will maintain your PyP-Bomb in perfect operating condition, and never overcharge it. For a replacement battery, your PyP-Bomb should be sent back to the place of purchase, contact PyP-Bomb Amplifiers via the website, or email us at info@pyp-bomb.com

CHARGE DURATION

The PyP-Bomb internal battery life will vary depending on how you play it. If your preference is to play loud and overdriven, the battery will last much less then if you play at a moderate level and clean. Take care to notice when the PyP-Bomb begins to distort more, or drop in volume level, in order to know when to charge your battery.

Also keep in mind that, as time goes by, the PyP-Bomb internal battery capacity will be reduced. It is because of this that we highly recommend taking advantage of the internal trickle charge feature that will maintain the battery in its best condition by plugging your PyP-Bomb in when not in use.

TROUBLESHOOTING

No Sound:

1. Make sure the 1/4 inch phono jack from your instrument is plugged into the INPUT jack.
2. Make sure the VOLUME knob is turned ON.
3. Make sure the UV lights inside the PyP-Bomb turn on when the VOLUME knob is switched on.
4. Try a different instrument cord. A crack or loose connection in the cord may be causing your instrument to have no output.
5. Try your instrument with a different amplifier, or try a different instrument with the PyP-Bomb.

Left Ear Headphone Output Only:

1. Make sure that you are plugging in a stereo headset into the OUTPUT jack. If you are using a 1/8" to 1/4" adapter, ensure your adapter is stereo in/out adapter. A mono adapter will only output sound from the left channel of your headset, and may damage your PyP-Bomb..

Low Sound Output or Distorted Sound:

1. Charge the PyP-Bomb for 4 hours and try again.
2. Try connecting the PyP-Bomb to the AC adapter and an AC outlet (110V AC).
3. Your source signal may be too weak for the PyP-Bomb to amplify. If you are using a microphone, ensure that you have the correct impedance matching transformer adapter (see website - <http://pyp-bomb.com> for more information).

Speaker Oscillation:

1. Charge the PyP-Bomb for a minimum of 4 hours. Speaker oscillation represents a very drained battery.

Low/High Frequency Hum:

1. Try playing your PyP-Bomb in a different room.
2. Try switching off any neon or fluorescent lights that may be affecting the output of your PyP-Bomb.
3. Switch to battery operation if using the AC adapter. Due to the varying charge requirements of the PyP-Bomb your AC adapter may cause a slight hum in the output.