

# BassBoost cMoy Headphone Amplifier Operational Guidelines

- The amp automatically turns on when you insert an input cable and turns off when the cord is removed.
- Turn your audio player's volume down very low before plugging in your amp. Do not expect to be able to turn the volume as high as usual; your headphones will be much louder at an earlier point.
- BassBoost can be turned on or off by moving the toggle switch up or down. Also do not expect your headphones to be able to play as loudly with BassBoost turned on—this feature pushes headphones to the limit.
- Avoid using dead or almost dead batteries; sound quality will suffer. If sound quality degrades at high volumes, especially with BassBoost turned on, try a new battery or a DC adapter. *Special Note: High impedance headphones will always benefit from higher voltage power supplies. A DC adapter may greatly extend the dynamic range of your amplifier and headphone combination.*
- It is highly recommended that you change batteries while the amplifier is turned OFF (unplugged).
- Although you will most likely experience a clean signal with a cheap interconnect cable, interconnect cable quality *does* make a difference. I test each amp to ensure that it produces an extremely clean signal. You should hear NO noise with your audio player plugged in and turned off (on iPods, simply turn the volume all the way down). If this is not the case, try a different cable. Check [www.HeadPhone.com](http://www.HeadPhone.com) for superb cables.
- This amp can produce dangerously loud music. Please be sensible and listen safely.



# DC Adapter Information

- The DC jack accepts 2.5mm submini plugs with the tip wired as positive. *Reversed polarity will instantly destroy the amplifier!*

- The BassBoost cMoy operates safely with input voltages from 9-24V. Always use the highest voltage at your disposal for the best sound.

- Use a linear, regulated DC power supply to ensure a consistent and safe voltage level.



## Recommended AC/DC Adapter Equipment

<u>Item</u>	<u>Price</u>	<u>SUPPLIER / Part #</u>
Phillips 1.5-12 volt AC Adapter + 12 Plugs	\$9.96	Wal-Mart (USA)

*Notes: Includes the necessary 2.5mm submini plug. Not regulated, but operates safely at ~17V when set to 12V and is therefore an excellent option. As shown in the image above, this adapter kit has markings to easily set polarity.*

OR:

		<u>RadioShack.com Part #</u>
3-12V Regulated AC-to-DC Adapter	\$39.97	273-1680
AdaptaPlug E (2.5mm submini jack)	\$4.99	273-1708

## Recommended Do-It-Yourself DC Adapter Equipment

		<u>Mouser.com Part#</u>
Kobiconn 2.5mm submini Cable Assembly	\$1.60	172-2133
(Optional) 18V regulator	\$0.46	511-L7818CV

*Notes: You will need your own AC/DC adapter, wire strippers, and soldering equipment. Alternatively, you can use RadioShack's \$4.99 "Adaptaplug E" and your own wiring in place of the Kobiconn part.*

Solder the 2.5mm cable assembly to any 9-24V, linear DC adapter (wiring the tip as positive—check with a voltmeter). Many devices use these AC/DC adapters. You probably have one sitting around unused.

**Technical Info:** A regulated power supply delivers a constant voltage regardless of the load, whereas unregulated power supplies increase in voltage as load current decreases. Therefore, an unregulated DC adapter may actually supply much more voltage than anticipated and quickly fry your cMoy amplifier. You can check your DC adapter with a voltmeter. If it is not regulated (ie, it is producing a higher voltage than its label says), use the optional 18V regulator to ensure a constant voltage supply (datasheets with wiring information are available at Mouser.com). Feel free to contact me at [jdsb8c@umr.edu](mailto:jdsb8c@umr.edu) if you need help.