



# Brake Lite SA Manual

[www.drzamps.com](http://www.drzamps.com)



This symbol advises the user to read all accompanying literature for safely operating the unit

### **Important Safety Instructions**

- 1) Read these instructions.
  - 2) Keep these instructions.
  - 3) Heed all warnings.
  - 4) Follow all instructions.
  - 5) Do not use this apparatus near water.
  - 6) Clean only with dry cloth.
  - 7) Do not block any ventilation openings. Maintain at least 3 feet of distance around all sides of amplifier. Do not block any ventilation openings with items such as newspapers, tablecloths, curtains, etc.
  - 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  - 9) Only use attachments/accessories specified by the manufacturer.
  - 10) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
  - 11) Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 12) 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.
  - 13) Avoid placing any liquids on or near the amplifier that may splash or drip such as those contained in bottles, cans, glasses, etc.
- \*Dr Z amplifiers are capable of producing very high sound pressure levels which can cause temporary or permanent hearing damage.

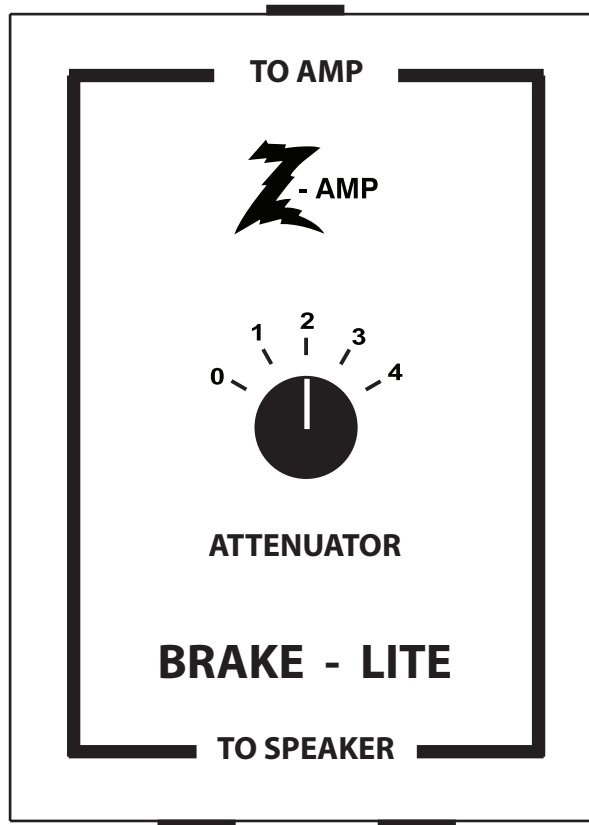
## General Information

You asked for for it and we listened...Introducing the fully enclosed Brake Lite SA (Stand Alone.) Same guts as the combo mounted Brake Lite, but able to be tossed in the gig bag for use with many different amps on the fly. The Brake Lite SA works with any tube amp up to 45 watts and can be used with 4, 8, or 16, ohm loads\*. The SA features 2 speaker outs that are wired in parallel. You can now run multiple cabs with ease.

*\* Not recommended for use with 2 Ohm loads*

## Specifications

<b>Max Wattage</b>	45 watts
<b>Controls</b>	Attenuation
<b>Colors</b>	Black
<b>Dimension &amp; Weight</b>	4" H x 5" W x 7 ¼" L (with right angle speaker jacks inserted), 1 lbs.



**Instructions:**

- Unplug amplifier from the AC outlet.
- Unplug speaker from amplifier chassis and plug into the "TO SPEAKER" jack on bottom of Brake Lite.
- Insert plug from the "TO AMP" on Brake Lite into the SPEAKER OUT jack on your amplifier chassis.
- Always match the speaker out jack on your amp to your combo speaker (use 8 ohm speaker out with 8 ohm speaker).
- The two speaker outs are wired in PARALLEL. When using two cabs from one amp, half the ohm load rating and use the corresponding output from the amp (two 16 ohm cabs = 8 ohm load, two 8 ohm cabs = 4 ohm).

*\* For use only with amplifiers up to but not exceeding 45 watts.*

*\*Not recommended for use with a 2 ohm load.*

Attenuation increments set by Dr. Z Amps for optimum results:

0 = 0dB  
1 = 2dB  
2 = 5dB  
3 = 8dB  
4 = 11dB



# Attenuation Fine Adjustment

## Instructions:

**You are able to fine tune the amount of attenuation between positions 1 and 2, and positions 2 and 3 by opening the your Brake Lite up.\* Attenuation levels between 0 and 1 and 3 and 4 are fixed settings and can not be adjusted. (NOTE: Brake Lite Install version is used in reference figures.)**

1. Unplug amplifier from the AC outlet.
2. Unplug Brake-Lite SA from speaker cab and amplifier.
3. Use a 1/4" nut driver or ratchet to remove the back panel.
4. Make note of where the attenuator clamps are for position 2 and 3 (Figure A). Use a fine marker or pencil to mark both sides of the clamp for easy adjustment back to stock values.

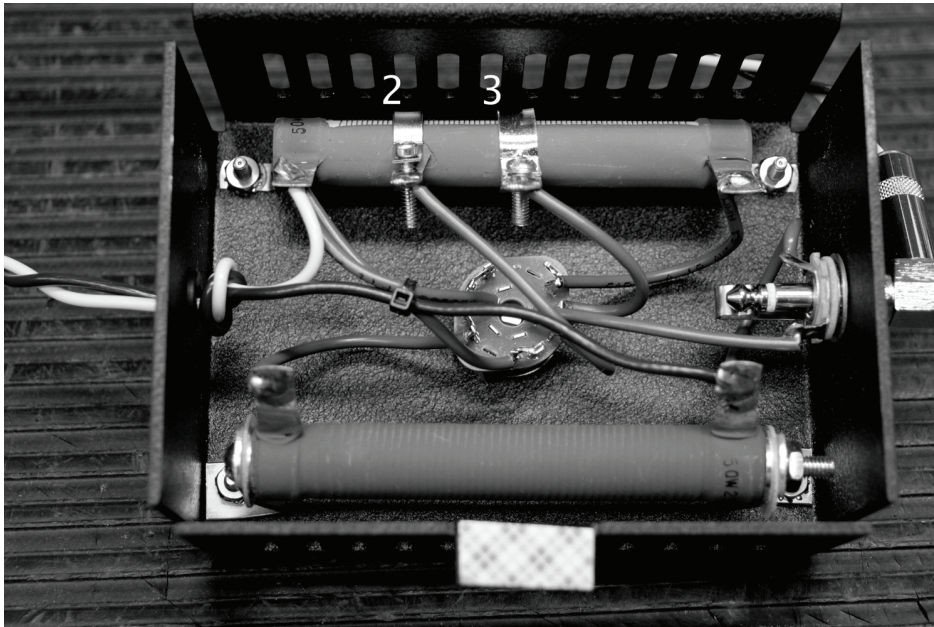


Figure A

5. Using a phillips head screwdriver, loosen the clamps so that they may freely move from left and right on the resistor (Figure B).
6. Moving the clamp to the right will increase attenuation and lower volume. Moving the clamp to the left with decrease attenuation and raise the volume (Figure C).

***\*Dr. Z Amplification is not responsible for any damage to your equipment by disassembling your Brake Lite. It is the doctor's opinion that these adjustments are subtle and stock values were picked for a reason, so if you have any concern with your ability to follow these instructions then it's best to leave your equipment alone.***

## Attenuation Fine Adjustment (Continued)

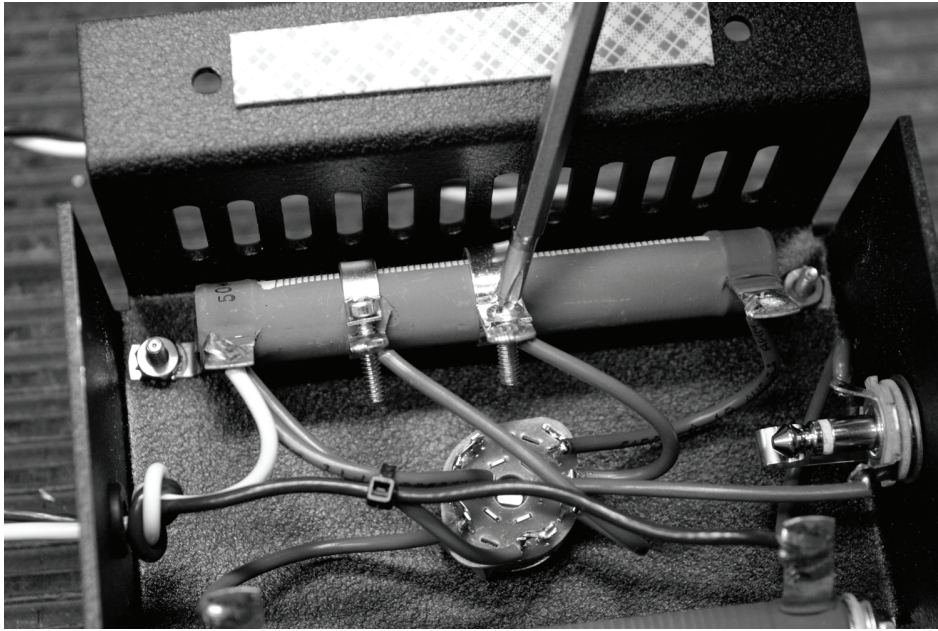


Figure B

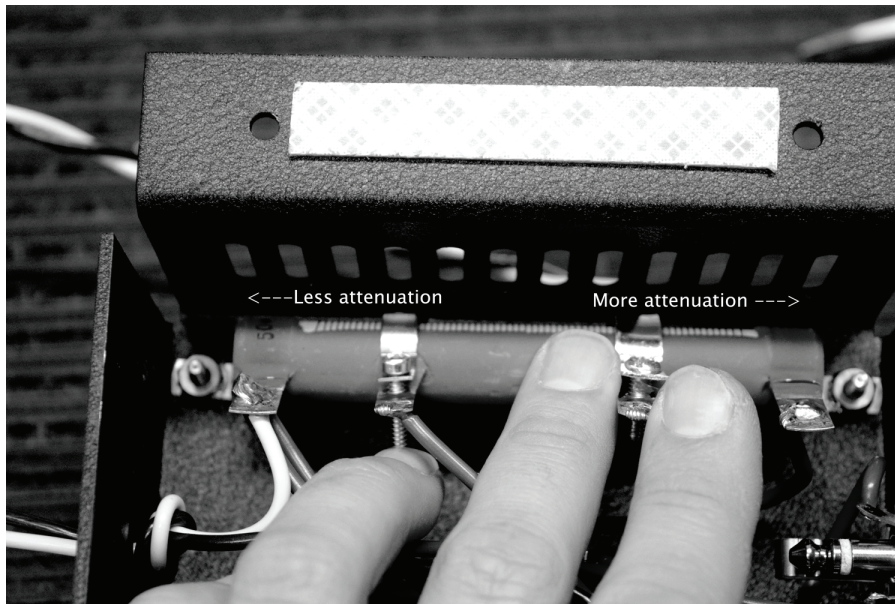


Figure C

7. After adjusting the clamps, tighten the screw to secure the clamp, making sure that the clamp indent is making contact with a copper winding on the resistor. If the indent is not making contact with the winding, the attenuator will not work (Figure D).

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## Attenuation Fine Adjustment (Continued)

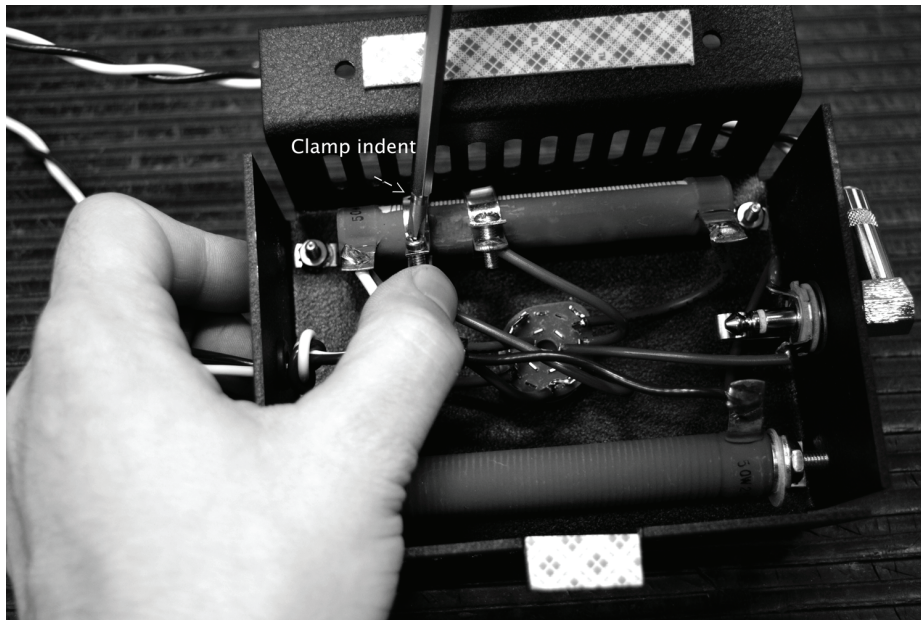


Figure D

8. After making sure the clamp indent is making contact with the resistor winding (Figure D), secure the back panel onto your Brake Lite SA with a 1/4" nut driver, plug in and enjoy.

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