



# Reactive Reducer 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

The new Dr. Z Reactive Reducer aims to not just lower a tube amp's volume but retain the tactile, dynamic response under the fingers from pushing an amp to the brink. Utilizing an inductive coil to maintain the reactive response of a guitar speaker hooked up to the amp, the Reactive Reducer's load follows the frequency plot of a guitar speaker, which is bell-like in its curve, clipping low and attenuating extreme high frequency, and passing the mid-range frequencies conducive to the electric guitar. Earlier resistive attenuators, while excellent at achieving volume reduction, can sometimes alter the response and play-feel especially at the lowest settings, hampering the interaction between player, amp, and speaker.

There are many reactive attenuating technologies on the market now that utilize digital IRs, have novel re-amping solutions, and add a bevy of innovative features. Dr. Z looked to keep this new attenuator simple and to the point: the reactive load, a 3-way toggle for -3dB, -11dB, and -18dB steps of reduction, plus a bypass switch to pass the signal straight through when attenuation isn't needed. Everything you need to maintain your playing experience, nothing you don't, at less than ear-punishing volumes!

The Reactive Reducer is optimized for 8 ohm speaker loads, though it can accept 4 and 16 ohm configurations, and will handle amps up to 50 watts. Bandmates, sound engineers, and housemates will rejoice, as will your wallet, as this is an affordable, robust, and hand-wired solution for the modern working musician looking to get the most out of their tube amplifier.

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

## Specifications

<b>Max Wattage</b>	50 watts
<b>Controls</b>	Attenuation (-3dB, -11dB, -18dB), Bypass
<b>Colors</b>	Gray
<b>Dimension &amp; Weight</b>	3 7/8" H x 6 3/4" L x 5" W (with bypass switch), 2 lbs.

### Instructions:

- Turn off amplifier.
- Unplug speaker from amplifier chassis and plug into the "TO SPEAKER" jack on bottom of Reactive Reducer.
- Insert plug from the "TO AMP" on Reactive Reducer 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).

*\* Optimized for an 8 ohm load.*

*\* For use only with amplifiers up to but not exceeding 50 watts.*