



Mini-Z Manual

Model: ZA-21
www.drzamps.com



This symbol warns the user of dangerous voltage levels localized within the enclosure.



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) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 - 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 - 11) Only use attachments/accessories specified by the manufacturer.
 - 12) 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.
 - 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
 - 14) 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.
 - 15) 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.
- *If any screw that is actually on the amp chassis needs to be replaced contact Dr Z Amps for the proper size. Screw size is critical for inner chassis clearances.

General Information

The Mini Z is back in action with a few tweaks. Now available as a head and a 1x10 combo...this is the same circuit and tone many have grown to love from the original Mini Z 1x8 combo. We have added a built in attenuator! You can turn it up to get maximum output tube distortion and dial it back to apartment dweller approved levels...tons of singing sustain that you can talk over. The Mini Z will also shine on smaller gigs where volume is a concern. The Mini has dedicated 8 and 4 ohm outs for different speaker cab applications. Put on top of your favorite cab and go for it. A single EL84, a single 12AX7, 5 watts down to under 1 watt...it's very easy to like the Mini Z.

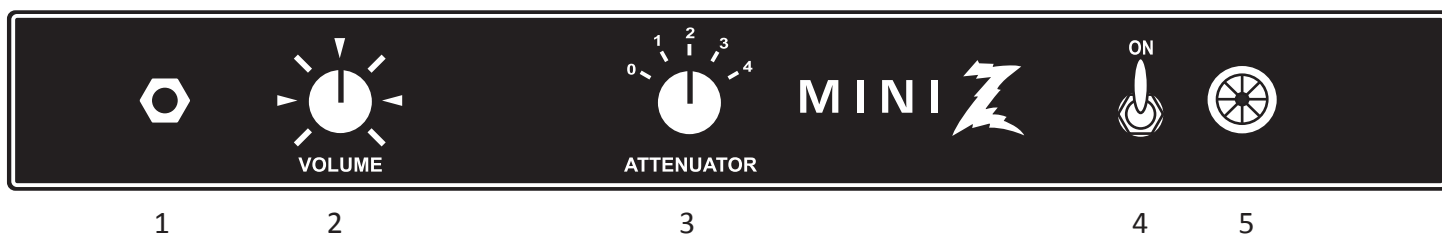
Clean headroom? Well, this amp wasn't built to give you much of that, but cleaner tones can be achieved by rolling back the guitar volume. But, if you're like the rest of us, that'll last about 30 seconds and then you'll have the guitar on 10 and be wailing away again...

The breakup begins lightly at around 9 o'clock on the dial, and the sound gets fatter and fatter with more gain as you turn up the volume. Want a nice & crunchy rhythm tone? It's at about 10-11 o'clock. Want a nice, sustaining tone for leads? It's at high-noon. Want ZZ-top? It's at about 2-3 o'clock. Want over the top saturation? Crank it all the way up. The amp gets both louder AND more distorted as you turn it up, so it's "quite a ride." Most will find a happy setting between 12 and 2 o'clock and control the volume and tone with their guitar.

Specifications

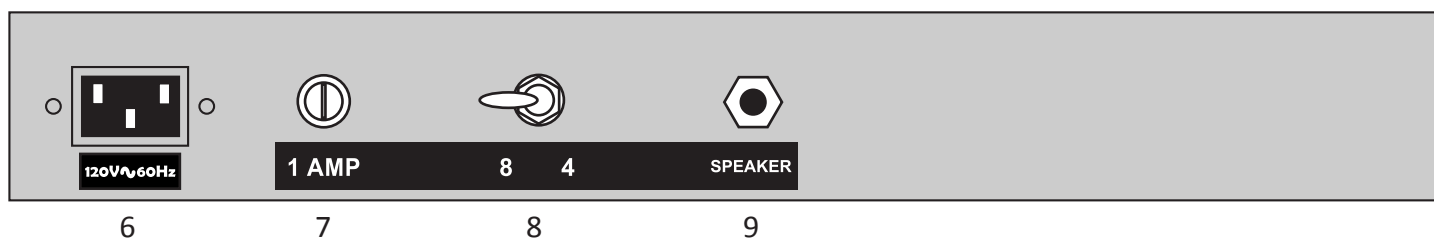
Power Output	5 watts
Output Tubes	1 - EL84
Preamp Tubes	1 - 12AX7
Controls	Volume, built-in attenuator
Configurations	Head, 1x10 Combo
Colors	Black, Blonde, Red
Dimension & Weight	Head: 17 ½" W x 9" H x 9 ½" D, 20 lbs. 1x10 Combo: 17 ½" W x 17" H x 10" D, 35 lbs.

FRONT PANEL



- 1. Input:** Input jack for your guitar.
- 2. Volume:** Controls overall amp volume. As you turn the volume up more natural drive will occur along with an increase in level.
- 3. Attenuator:** Attenuates signal between amp and speaker. You can dial in your tone with the volume knob and dial back the overall volume by turning attenuator clockwise.
- 4. Power:** Switch up to turn on amplifier. Switch down to turn off amplifier.
- 5. Power Indicator:** Lights up when power is switched on. If bulb fails replace with type T47.

REAR PANEL



- 6. AC Inlet:** (Class I Wiring). This device is used for disconnection from power mains and must remain readily operable. The power indicator light does not indicate connection to power mains. The power cord must be disconnected to disconnect amplifier from power mains.
- 7. Fuse:** The fuse protects the amp from electrical faults. Replace only with the same rating and type stated below fuse holder. If the amp repeatedly blows the fuse contact your dealer or Dr Z Amps.
- 8. 8/4 OHM Speaker Impedance Switch:** Switches impedance of the speaker output jack signal between 8 OHM and 4 OHM. Use this to match the impedance of your speaker cab.
- 9. Speaker Jack:** Plug in speaker here. Always have a speaker plugged into the amp when it is powered on. Always match the speaker impedance to the proper speaker out jack. This will allow the amp to sound its best and avoid damage.



MODEL: _____

SERIAL NUMBER: _____

INPUT VOLTAGE: _____



MADE IN USA



Dr Z Amps 17011 Broadway Ave. Maple Heights, OH 44137 USA



DECLARATION OF CONFORMITY

We, Dr Z Amps, declare, taking this declaration under our total responsibility, that guitar amplifier model Mini-Z (ZA-21) is in conformity with EN 55013, EN 61000-3-2, EN 61000-3-3, and EN 55020 in accordance with the Directive 2006/95/EC of 12 December 2006, and in conformity with the 2011/65/ECC Rohs Directive.

11-19-2014

A handwritten signature in black ink that reads "M. D. Zaito". The signature is written in a cursive, flowing style.

Michael Zaito, General Manager Dr Z Amps