



PHD Manual

Model: ZA-55
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

Having a love of small, single-ended class A amps since hearing the opening bends of Joe Walsh and the James Gang's staple "Funk 49," a huge tone that was recorded with the tiny 5-watt tweed Champ, Dr. Z followed his ears in his latest offering, the PHD. The attraction to class A, single power tube, single-ended amps is in their hallmark of swirling, even order harmonics and the additive play-feel you get from pushing a power tube towards its limits, especially without blowing the roof off with volume. Yet, the Champ's small 5w output has its limitations, with minimal headroom and a looser, narrower bandwidth as the volume increases. Dr. Z aimed to retain the charm of the Champ's raunchy over-driven sounds but increase the sonic potential with better headroom, clarity, and control.

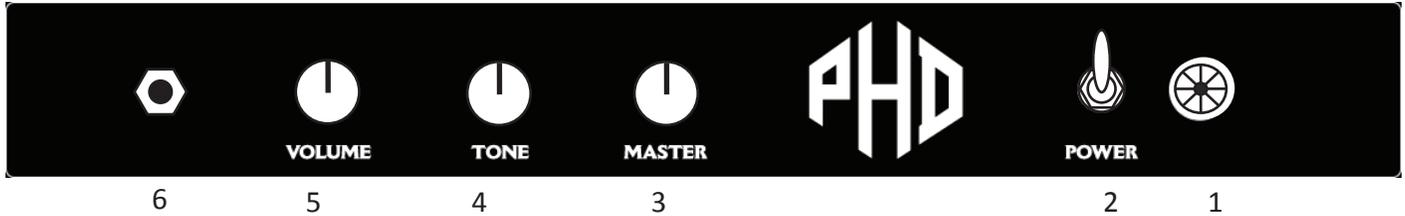
Looking to other amps in the same single-ended camp, Dr. Z noted that Telecaster master Steve Cropper's crisp, accurate clean tones were played through the rare tweed Harvard. Looking for that broad bandwidth coupled with punchy headroom, Z replaced the common 12ax7 preamp with the robust octal-based 6SL7 tube for a richer, muscular sound signature. Selecting a Gold Lion KT 66 power tube to replace the smaller bottle 6V6 added depth, articulation, and the frequency bandwidth he was looking for. Finally, substituting the low voltage 5Y3 rectifier with the more powerful 5U4 gave the PHD more wattage, cooking it up to a useful 10 watts and sitting in the sweet spot of enough clean headroom to reproduce pedals through the front end but still give the player the churning grind and responsive feel under the fingers that a class A KT66 pushed into overdrive generates.

The PHD is equipped with a single tone control, a note taken from the classic Harvard design, and adds a master volume to achieve great overdriven tones at lower volumes or maximize clean headroom. The PHD 1x10 combo is build around a WGS G10 C/S speaker in a lightweight and highly resonant poplar ply cabinet, weighing in at 29lbs, making a portable amp with a big sound, without the boxiness typically heard from compact combos. Also available as a head, marry the PHD up to a 2x12 or even a 4x12 for a very lightweight head that will surprise you in its sonic footprint, opening up two big bottle octal tubes and pushing them to the brink without clearing out the front row.

Specifications

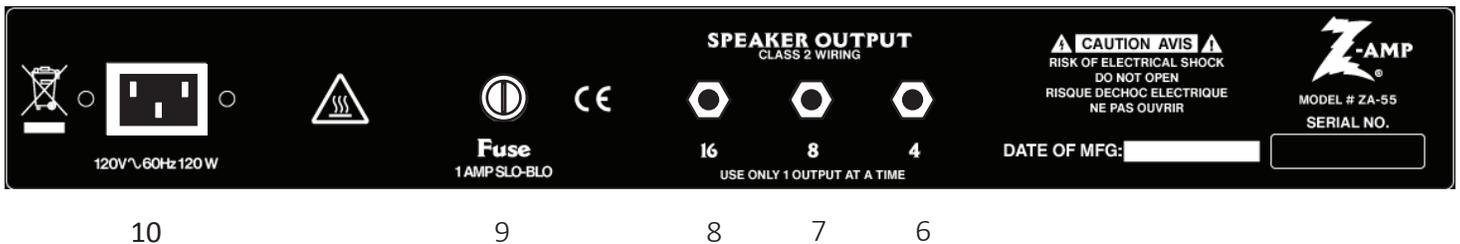
Power Output	10 Watts
Output Tubes	1 - KT66
Preamp Tubes	1 - 6SL7
Rectifier	5U4GB
Controls	Volume, Tone, Master
Other	4, 8, 16 ohm speaker outs
Configurations	Head, 1x10 Combo
Dimension & Weight	Head: 17 1/2" W, 9" H, 9 1/2" D; 24 lbs. 1x10 Combo: 17 1/2" W, 17" H, 10" D; 29 lbs.

FRONT PANEL



- 1. Power Indicator:** Lights up when power is switched on. If LED fails replace with a 6.3 volt #44 Bayonet Base(BA9S).
- 2. Power:** Switch up to turn on amplifier. Switch down to turn off amplifier.
- 3. Master:** Controls the overall loudness of the amp.
- 4. Tone:** Controls overall tone of guitar. Turn clockwise for higher frequency emphasis, counterclockwise for lower frequency emphasis. Most find a sweet spot between 10:00 and 2:00.
- 5. Volume:** Controls the input level of the guitar. Turn up higher for more overdrive, set lower for clean.
- 6. Input:** Input jack for your guitar.

REAR PANEL



- 6. 4 OHM Speaker Jack:** Plug in 4 ohm 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.
- 7. 8 OHM Speaker Jack:** Plug in 8 ohm 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.
- 8. 16 OHM Speaker Jack:** Plug in 16 ohm 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.
- 9. Fuse:** The fuse protects the amp from electrical faults. Replace only with the same rating and type stated below fuse holder (1A 250v SLO BLO). If the amp repeatedly blows the fuse contact your dealer or Dr Z Amps.
- 10. 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.



MODEL: _____

SERIAL NUMBER: _____

INPUT VOLTAGE: _____



MADE IN USA

