CERIATONE
AMPLIFICATION

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AH Deluxe 50 and 100

Instruction Manual

Thank you for your kind support, and congratulations on the new amp that we at Ceriatone think will be a great addition to your tone arsenal!

Overview:

-Channel Switching amp with Clean and 2 Gain Channels (OD + HOD)

- EL34 Power Tubes (100W = x4, 50W = x2)

- 12AX7 Preamp Tubes x 4

- Clean Channel: Volume, Treble, Middle, Bass, and Bright Switch

- Gain Channels (Shared EQ):

    - OD Channel: Gain, Treble, Middle, Bass, Master Volume

    - HOD Channel: Gain, Treble, Middle, Bass, Master Volume

    - Multiple tone shaping controls: “Voice”, “Structure”, “Thick”, “S”, “Era”

- Global NFB, Resonance Controls

- Series Buffered Loop with Return Level

- Line Out Jack with Level control

- Hand Wired on Turret Board with the best components

We are confident that the Ceriatone AH Deluxe will satisfy your tonal needs. Should you have any questions, or just want to chat, please feel free to email me at nik@ceriatone.com

Keep on Rockin!

Nik S Azam

Ceriatone Amplification S/B

Kuala Lumpur, Malaysia

The Ceriatone AH Deluxe model is a 3 channel amp that will provide you with tones ranging from pristine, and rich cleans, to classic rock crunch, and to the heaviest of metals.

Each channel has multiple voicing options to enable wide variety of tonal palette to the user.

As with other Ceriatone amplifiers, the AH Deluxe is wired point to point on turret boards (not PCB), with the best components that are industry standards. We invite you to view the gutshots of our amps on the Ceriatone website, to witness the best and cleanest wiring that Ceriatone is known for.

The amp takes pedals well, and on top of that, a series buffered solid state loop (bypassable, and with Return Level Control) is also built in, to give the best performance in effects loops.

For your recording, and other advanced needs, a Line Out with Level control is also included.

The Clean Channel comes with Volume, Treble, Middle, and Bass controls, as well as a 3 way bright switch.

The overdrive consists of 2 modes, the OD and HOD. Each of these channels have its own Gain and Master conrols, thus enabling you to set your sounds exactly as you need, and easily switch from one to another, without volume jumps, and other inconveniences.

The OD and HOD channels share the same EQ controls, namely Treble, Middle, and Bass.

For versatility, there are various switches and controls that enable further tone shaping, as can be seen in the description of features, in the next page.

Caution:

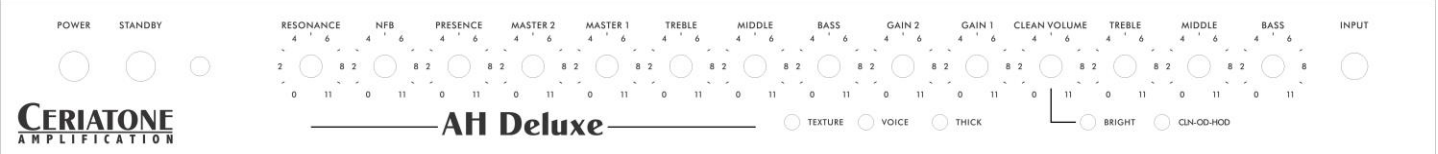
Tube amplifiers have high voltages inside, which can be lethal. Safety precautions in handling such equipment should be adhered to at all times.

Repair and Servicing should be conducted by a qualified technician. Do not open it up, if you are not qualified.

The amplifier must be operated with the proper mains voltage, using a proper polarized/grounded power cord.

Do not expose the amp to water/moisture, or excessive heat.

Vacuum tubes are wearable items, and need replacing from time to time. It is wise to send the amplifier for periodical general checkups, as a preventive maintenance measure, and to ensure optimal tonal performance.



Power Switch:
This will turn on the power to the amp.

Standby Switch:
This will put your amp to play mode. Do leave the amp on standby for 30-60 seconds before putting to play position, to allow the vacuum tubes to warm up, and for the toanz to be ready for your onslaught.

Note: Please connect speaker or other suitable load at all times, when the amplifier is turned on.

Resonance Control (Global, meaning it applies to Clean and OD channels):
This allows you to adjust low end to the power amp section.

NFB Control (Global):
This allows you to vary the amount of negative feedback in the power amp. Start at noon, adjust to taste.

Presence Control (Global):
Adjusts upper mids and highs of the power amp section. Start at noon, adjust to taste.
Wired like a vintage British amp's Presence Control, some scratchiness is to be expected.

Master 2 Control:
This is the HOD channel volume control.

Master 1 Control:
This is the OD channel volume control

Treble Control:
This is the treble control of the OD and HOD channel (shared).

Middle Control:
This is the midrange control of the OD and HOD channel (shared).

Bass Control:
This is the low end control of the OD and HOD channel (shared).

Gain 2 Control:
This is the gain/distortion control of the HOD channel.

Gain 1 Control:
This is the gain/distortion control of the OD channel.

Clean Volume Control:
Adjust the level of the Clean channel.

Treble Control:
This is the treble control of the Clean channel

Middle Control:
This is the midrange control of the Clean channel

Bass Control:
This is the low end control of the Clean channel

Texture Switch (OD and HOD channels):
This is basically adding a small valued capacitor across the bass control lug, to eliminate lower mid frequencies, for a tighter response. The effect can be subtle, do play around with it, along with your other setting.

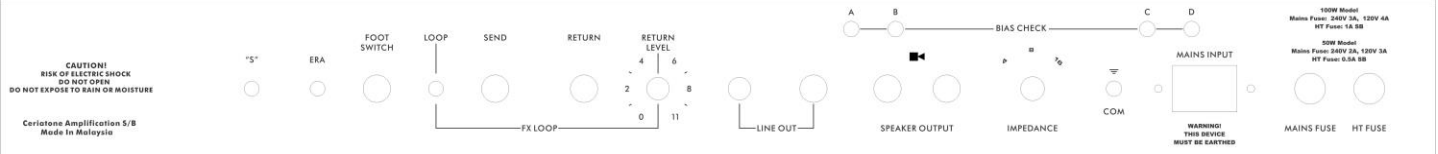
Voice Switch (OD and HOD channels):
This is basically small cathode resistor bypass capacitors added to the cathode follower stage (V3B), allowing for variation in tone, especially the top end. Center is with no bypass capacitor.

Thick Switch (OD and HOD channels):
This thickens up the tone of the amp, by changing the coupling cap value of the V2B tube.

Bright Switch (Clean Channel):
This is the bright switch for the Clean channel. Center is off, ie no bright capacitor selected.

Clean-OD-HOD (Channel Select) Switch:
This allows you to switch channels without using the footswitch.
If footswitch is connected, the channel selection follows the setting on the footswitch

Input Jack:
This is where you insert your guitar.



"S" switch (OD and HOD channels):
This allows for selection of gain for the overdrive channels. It basically selects 3 different configs of cathode bypass resistors/capacitors on V2B tube.

Era Switch (OD and HOD channels):
This gives 3 options of gain, compression, and saturation to the overdrive channels. It works by adding clippers to the circuit, while center is without a clipper.
Center (off) will give the highest volume, so do adjust your Master controls accordingly when this control is engaged.

Footswitch Jack:
Plug the AHD footswitch here.

Loop Switch:
This is to turn on the series solid state buffered loop.

Send Jack:
Plug into the Input of your effects unit.

Return Jack:
Plug into the Output of your effects unit.

Return Level:
When Loop is turned on, this will become the amp's global master volume (before signal hits Phase Inverter). It is set so that at full (10), the level is same as with Loop turned off.

Line Out Level:
This controls the signal level from the Line Out Jack.

Line Out Jack:
This is a line out with level control at speaker-level stage, without cabinet/emulation. It can be plugged into suitable power amps, effects, consoles, etc.

Speaker Jacks:
Plug speaker cable here. Do use proper speaker cable, and select the impedance accordingly.

Impedance Selector:
This selects the output impedance tap of the output transformer (4, 8, and 16). Do select accordingly per the speaker cabinet(s) plugged in to the Speaker Jacks.

Mains Input:
This is to plug the IEC power cable to your wall voltage outlet. We wire accordingly to your country, or request (100, 120, 220, 230 or 240V). Do not plug wrong voltage into the amp, damage can occur.

Mains Fuse:
Replace with same value and type as indicated.

HT Fuse:
Replace with same value and type as indicated.

Bias Jacks:
Each jack is connected to 1 power tube, to enable bias reading.
The jack marked Com is to plug the negative lead of the multimeter.
You will read 1 tube at a time, using a multimeter (in DC volts, millivolts range).

For 100W model, there are 4 bias jacks
For 50W model, there are 2 bias jacks.

The bias adjustment potentiometer is located on the chassis floor, between V4 (PI tube), and V5 (1st power tube).

We recommend the bias to be set between 30-35mV (millivolts) DC, with this amp.

Using matched pair or quad of EL34s, the readings will be about same, when bias is adjusted for 1 tube. Do go back and forth with the other tubes, so you have an acceptable average.

Off by 5mV can be considered acceptable.

Thank You!